

U.S. PTO



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SUBSTITUTE SPECIFICATION MARKED-UP VERSION

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FIGURE 1083A

GCCCCAGATCGGAAGTGACGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCGCGTTCTTGAGTC
GGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATCCCCGAACCGCGATTGGCGGTGTCAGGAATTCGAATT
TAGAGTTTAAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTACAGTATCTCAAAGACTTCAGTTGACTTCTTG
ATCCTGCATAAAACCAAGGAGAAAAGAAATGGGTCGCTCCAATTCTAGATCACATTCTTCAAGGTCAAAGTCTAG
ATCACAGTCTAGTTCTCGATCAAGATCAAGATCTCATTCTAGAAAAGAAGCGATACAGTTCTAGGTCTCGTTCCAG
AACATATTCAAGGTCTCGTAGTAGAGATCGTATGTATTCTAGAGATTATCGTCGCGATTACAGAAATAATAGAGG
AATGAGACGACCTTATGGGTACAGAGGAAGGGGTAGAGGGTATTATCAAGGAGGAGGAGGTAGATATCATCGAGG
TGGTTATAGACCTGTCTGGAATAGAAGGCACTCTAGGAGTCTAGACGAGGTCTTACGTTCCAGGAGTCCAAA
AAGAAGATCCGTTTCTTCTCAAAGATCCAGAAGCAGATCTCGCCGGTCATATAGATCTTCTAGGTCTCCAAGATC
ATCCTCTTCTCGTTCTTCTATCCCATATAGCAAATCTCTGTTTCTAAAAGACGAGGGTCTCAGGAAAAACAAAC
CAAAAAGCTGAAGGGGAACCCCAAGAAGAGAGTCCGTTGAAAAGTAAATCACAGGAGGAACCGAAAGATACATT
TGAACATGACCCATCTGAGTCTATCGATGAATTTAATAAGTCATCAGCCACATCCGGTGATATTTGGCCTGGCCT
TTCAGCTTATGATAATAGTCTAGATCACCCATAGTCTTACCTATTGCTACACCACCTAGTCAGAGTTCATC
TTGCTCTGATGCTCCCATGCTCAGTACAGTTCAGTCTGCAAAAAATACTCCTTCTCAGCATTACATTCCATTCA
GCATAGTCTGAAAGGTCTGGGTCTGGTTCTGTTGGAATGGATCTAGTCGATACAGTCTTCTCAGAATAGTCC
AATTCATCACATCCCTTACGAAGAAGTCTGCAAGACAATCGCACACAGAATGCTCCAAGAGATGAGTCTAG
GGGCCGTTCTCGTTTTATCTGATGGTGGAGATCAGGAACTGCAAGACTGGGAAGTTCTTAAAAAGGTTTAC
AGATGAAGAGTCTAGAGTATTCTGCTTGATAGGGGTAATACCAGGGATAAAGAGGCTTCAAAGAGAAAGGATC
AGAGAAAGGGAGGGCAGAGGGAGAATGGGAAGATCAGGAAGCTCTAGATTACTTCAGTGATAAGAGTCTGGAAA
ACAAAAGTTTAAATGATTGAGAAGGGGATGACACAGAGGAGACAGAGGATTATAGACAGTTCAGGAAGTCAGTCT
CGCAGATCAGGGTAAAAGTTTTGCTACTGCATCTCACCGGAATACTGAGGAGGAAGGACTCAAGTACAAGTCCAA
AGTTTCACTGAAAGGCAATAGAGAAAGTGATGGATTTAGAGAAGAAAAAATTATAAACTTAAAGAGACTGGATA
TGTAAGTGGAAAGGCCTAGCACTACAAAAGATAAGCACAAAGAAGAAGACAAAAATCTGAAAGAATAACAGTAAA
GAAAGAACTCAGTCACCTGAGCAGGTAAAGTCTGAAAAGCTCAAAGACCTCTTGATTACAGTCCCCCTCTACA
CAAGAATCTGGATGCACGAGAAAAGTCTACCTTCAGAGAGGAAAGCCCACTTAGGATCAAAATGATAGCGAGTGA
TTCTCACCGTCTGAAGTCAAATCAAATGGCACCTGTTCTCTTGATGATTCTAACAGACCTGCTTCCTTGAC
TAAAGACAGGCTGCTTGCTAGTACACTTGTCATTCTGTCAAGAAGGAGCAAGAATCCGATCCATCTTTGACCA
CATTAAAGTTGCCACAGGCCAGCAAAAGCACTTCAGAGTCATTTATTCAACACATTGTGTCTTGTTTCATCATGT
TAAAGAGCAATACTTCAAGTCAGCTGCAATGACCCTAAACGAGCGGTTCACTTCGTATCAGAAAGCCACTGAAGA
ACATAGTACTCGGCAAAAGAGCCCTGAAATACACAGGAGAATTGACATCTCACCAAGTACCCTGAGGAAGCATAAC
CCGTTTAGCAGGGGAAGAGAGAGTTTTTAAAGAAGAAAAATCAAAGGGAGATAAAAAATTAAGGTGTGACTCTGC
TGACCTTCGGCATGACATTGATCGCCGTAGAAAAGAAAGAAGTAAAGAACGGGGAGATTCCAAGGGCTCCAGGGA
ATCCAGTGGATCAAGAAAGCAGGAAAAAACTCCAAAAGATTACAGGAATACAAATCTTACAAAGATGACAGTAA
ACATAAAAGAGAGCAAGATCATTCTCGATCTTCACTCTTTCAGCATCACCTTCTTCTCCAGTTCTCGAGAAGA
AAAGGAGAGTAAGAAGGAAAGAGAAGAAGAAATTTAAAACTCACCATGAAATGAAAGAATACTCAGGCTTTGCAGG
AGTTAGCCGACCACGAGGAACCTTTTTTCGAATTAGAGGCAGAGGAAGAGCCAGAGGAGTTTTTGTGGGACAAA
TACTGGTCCAAACAACCTCAAATACTACTTTTTCAAAGAGACCGAAGGAAGAGGAATGGGATCCAGAAATATACCCC
AAAGAGCAAGAAGTACTTCTTGATGACGACAGAGATGATGGTGTGGATTATTGGGCCAAAAGAGGAAGAGGTCTG
TGGTACTTTTTCAACGTGGCAGAGGGCGCTTTAACTTCAAAAAATCAGGTAGCAGTCTAAATGGACTCATGACAA
ATACCAAGGGGATGGGATTGTTGAAGATGAAGAAGAGACCATGGAAAAATAATGAAGAAAAGAAGGACAGACGCAA
GGAAGAAAAGGAATAATAATATGAAGTAAGATTACAACAGAGCAGAAGTTCACCCACCATTTTTTTTTACCTGA
TTTTTGTTCATAATAAGAATGTAAGCATTCTTAAATTTTACTGTTTGCAAGTAGTCTATAGAAATTTGTT
TTAAGTCTTCAAATATCTTGAGAAATAGTAGACTGTATGTTGAAAATGTACTGAAATAAAGTAGAAAAATTGTTA
CGTACCATATTTGTAACATCAACTTTTTAAACTTTTAACTGTTTGTACATGCATTGTAATTTCTGCTTTGTCT
ATAAGATATGGTCAAGTACAGCTCTGTGAAAGTTCTGATTCTCTTCTTCCCTGTTTGTCAATGTTTTATTCTGA
AGTAAACGTTAGCTCTACATATAAATCCTGGAACAGAAATTGTTTATAGAGACTACACTAATTATTTTAACTGTA
TACATCTGTTTTAATTTGAACACACTACATCGTAGGGTGACTGATTTTGAAGTATACCACAGACAAAAAGTTGTT
ACTATGGTAAACTAAGCTAGTTTAACTTGAAGCAATGCTTAAAGGAATTAATAAAAAAAGCTTTGCCAAT

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FIGURE 1083B

AGCTAAAAAGTACAAGCTATTAAAAATCAGATTGAAAAGTTTTGAGAAAATGTTATTTTTACTGAAAGCAAGCAG
TGGCCTATAAAGAACATTCTTAGGAGCCTTTTTCTATTGCGTTCAAACCTGTGTGTTCTCTTTCTATTCTATT
GATAGTTTGAGTCATGGTCTTAGATATTAGCTATTTGTGAGAGGAACTGGTTTGTAACAATACTGCAAATAGAA
ACCCCATTTCTACTGAACATCCTAGTTTTAAACAGAAGAAAACTGTAATCCTGGGGTTGGTATGTAGGAGGTCT
ATCCTGCAGAATAAGTTGATACATTAGTACCTGATTTTCATATCTTACATATTTATTTGAGCTGAACATTAGTTTG
TAGTGTAACATAATTAGTAAAAATAGAGAAACACAGCATACTGTTTATTAAATAGTATTTTAAAAAAATTGTTTTCA
AATGTCACCAATAAAAGTTTTTGGCAGGAAGCTTGTGCGGCATTGATCTAACCTTTTTCCCCCATTTCAGTTG
CAGTTTTTGTAGAATGGCTTTTTCTTTTTCTCTTAAGAGTTCTATTCTTCAGGTAGATAATTTTCAAATGTGA
ATTATCTTTTTGTGCTATATTGATAGCTCTTAAAGGAGTGAAAATCTAAAATAGTAAATTTCAATGTTAAGTGTC
TGCTTTATGGGCATATATAAAGTAGACACATTTTCATTTGTTAATTTAGTTGTGTGTGTGTGTTAAAAGGAGCTA
AIGCTTATTCTGTTAATGTAAACTTTTTGAAGATCTTAAGTGATTGCTCTTTCATCTTAAACACTTTCGAGGATT
TGCAGTGCGTCTAGCACCTAGATTACAGCCAGGAACATTGGTTAAGAAGTGTGGAAACAAAACATAAAGCAAAC
TCAACATATGTGATGTTTATGGCCCTCAGATCCTTAGTATTGTGTGATTTTCCCCCGTTAACATGTCTTTCTAAA
ATTGTCTATTAAAGCAGAGGAAATACCTGCCAAAGGAAGTATGTATTGCATTAATCAGGGCATAACTAATATTCT
CCTGTTTCAGAATAATACTTATTTACGTGTGAAAGCAACATGGATGTGATTCCCAACACAGAATTTTCATGACCCT
TTTATTGTATACAAATAAAATACCATAACAGTTACTTGGTTAGACATCAAATCTGTGTGCATGACTATGTGCTTAT
CCACTTAAGACAATAGGTAAAAGGGGATCTGAGAAATTATGTAATAGGGAGTGGGAATAAACTACTTAATTCCT
GTGGGCAGGTTATATTTAAGTTCAAATGCATTGCTTTAACCTTTGGTTACTTTTATTCTGTTAAACAGAATTGA
AGAAAGAGTATTATACCAGAGTGTAGTAGGCTAGGGTGATTGTAAGAAGTCTGTAATAGAATGTCATTGTGGATG
TTACCTTTTTTCAGATCCAAGCATATAAAAAGCCTGTATATTTTTTAAAAACACATCTTAACCTCCACGCTTTACGA
TATTATAAAAAGTTGAATGGTTCCTCTTGGTAAGGATATTTGCTTACAAGTGCTAGGAAATAACTCACTGATACCT
GCGTTAACATACTTTGTTTTGCCTAGAGAGGGGCAATAAAAATGAACCAAGGATATTTCCAGAAAGGATTAAGA
AAGCTGTTTAAGAAGGCCATGACTCTTTAGGTGTGTATGTGTACCTTTCAGCATCCTAGGAATTTTATACTAAA
AGCAAAATGTTTTTCCAGTTAGTCTTCTTCAAGGAATTACTATTGTTCTTTTGTACAGGTAAAAATCAGTGTT
GGGAATTATAATTTGAGAAAAATATTACCCAGTAACATTGAATGTAGATGGCTAAACGATTCTTACTCAGTGTA
TGTATAATGATGCAACAGGGACCCTTGTAATTGTCATACGCCAATAAAATGTCACAAGTAAT

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FIGURE 1084

MGRSNSRSHSSRSKRSQSSSRSSRSRSHSRKKRYSSRSRSTYSRSRSRDRMYSRDYRRDYRNNRGMRRPYGYRG
RGRGYYQGGGGRYHRGGYRPVWNRHRSRPRRGRSRSPKRRSVSSQSRSSRSRSRYSRSSRSPRSSSSSRSSSPY
SKSPVSKRRGSQEKQTKKAEQEPQEE SPLKSKSQE EPKDTFEHDPSESIDFNKSSATSGDIWPGLSAYDNSPRS
PHSPSPIATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSIQHSPERSGSGSVGNGSSRYSPSQNSPIHHIPSRRS
PAKTIAPQNAPRDESRGRSSFYPDGGDQETAKTGKFLKRFTDEESRVFLLDRGNTRDKEASKEKGSEKGRAEGEW
EDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNTTEEGLKYKSKVSLKGNRES
DGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSERITVKKETQSPEQVKSEKLDLFDYSPPLHKNLDAREKS
TFREESPLRIKMIASDSHRPEVKLKMAPVPLDDSNRPASLT KDRLLASTLVHSVKEQEFRSIFDHIKLPQASKS
TSEFIOHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVF
KEENQKGDKKLRCD SADLRHDIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSR
SSSSSASPSSPSSREEKESKKERE EEFKTHHEMKEYSGFAGVSRPRGTFFRIRGRGRARGVFAGTNTGPNNSNTT
FQKRPKEEEWDPEYTPKSKKYFLHDDRDDGVDYWAKRGRGRGTFRGRGRFNFKKSGSSPKWTHDKYQGDGIVED
EEETMENNEEKKDRRKEEKE

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FIGURE 1085

ATGACCATGGAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCAT
GTGCAGACTCAGACTGGGCAAATTTCAATCCCTGCTTTAGCTCAGTGCAGTGAGCTGAGATCAGGCACCAGAAGA
GGCTCCCCAGCTGTAACCTAGTGCAGTTACCTTCGGGCCAAACTATACATGTCCAGGGAGTAATTCAGACACCA
CAGCCATGGGTTATTTCAGTCATCAGAAATACACACCGTTTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCA
GAATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTACGAAGACCCCTCTTATAGGAAAATACTG
AATGAACTGTCTCTGATGTGCCTGGTGTTCCTCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCT
AGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGT
GGAACAATCCAGATTTCTAACCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGA
GCTCCTCCACCAGGTGCTACAATTGTACGTACGCAGCACAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCA
GGCAGCCAGGTTGTTGTTCAAGCTGCCACTGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTGCTGCTTTG
CCACAGGGAGTGGTGATGGCTGCATCGCCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACGC
AAACGAGAGCTGAGGCTAATGAAAAACAGAGAAGCTGCCCGGGAGTGTGCGAGGAAGAAGAAAGAAATATGTCAA
TGCTTTGAAAAATCGTGTGGCTGTGCTTGAAAACCAAACAAGACTCTCATTGAGGAACTCAAGGCCCTCAAAGAT
CTTTATTGCCATAAAGTAGAGTAACTGTCTTTGACTTGGACCTTGTTTACTCTAATCAAGGCAGGAGATGCAGCA
GTCCTACTTATTGCCATGTGGACTTGTGGGAAGGACACGTGTGACCCTTAAGAATCCAGTTTGATTAGTGTGTTG
AAATTGAATTGGGAATGTTGTTCCAGGATGTGGAATGCAGCGTGATCACACTTACCGAGCTTACTTTGATCTGTT
TGTCATAGCATGCAAAAAATGCTTTGTTTGCCCTTTGCTTCTGCTTTTTTTCAGGGAAGCTGCCAAAGAATGTC
GACGTCGAAAGAAAGAATATGTAAATGCCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTA
TAGAGGAACTTGAAACCTTGAAAGACATTTGTTCTCCAAAACCTGATTACTAGAAATATTTAACTATGAACTGAT
TACAGA

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FIGURE 1086

MTMETVESQHDGSITASLTESKSAHVQTQTGQISIPALAQCSSELRS GTIRRGSPAVTLVQLPSGQTIHVQGVQIQT
QPWVIQSSEIHTVQVAAIAETDESAESEGVIDSHKRREILSRPSYRKILNELSSDVPGVPKIEERSEEEGTPP
SIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQQFFVP
GSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATR KRELRLMKNREAARECRRKKKEYVK
CLENRVAVLENQNKTLIEELKALKDLYCHKVE

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FIGURE 1087

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTGCGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAAATTTCGAGCC
ATATAAATAAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTTCCTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAAAAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCACCACCTAGTGTAATAATAAATCAAG
TAATACAATCTTAACTGTTGTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTT
TATAGATCTTTTAGTTTCAACTCAGCTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACCTCATATTTGATCTTTTCTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCAATGGTTT
TTCACCTTTTTTATTTACTTCATTTTCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAACAACATGGCTTGTGT
GAAAACCTGAGCAGGIGTTTGTTTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGCTGACTTGCTTTCACTTATTAAACATGTTACCATGGGATGATGCTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1088

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

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FIGURE 1089

CATGTC TGGGCGGGCAAAGGCGGGAAGGGTCTGGGCAAAGGAGGCGCTAAGCGCCACCGCAAAGTTCTGCGCGA
CAACATTCAGGGCATCACCAAGCCCGCCATCCGACGCCCTGGCACGGCGTGGAGGCGTTAAGCGCATCTCAGGCCT
TATATACGAGGAGACACGCGGAGTTCTTTAAAGTGTTTTGGAGAATGTAATCCGCGATGCAGTTACCTACACGGA
GCACGCCAAACGCAAGACAGTCACAGCCATGGACGTGGTTTTACGCGCTCAAGCGCCAGGGCCGCACCCTGTATGG
CTTTGGCGGCTGAGTGTTTTACTTACTTACACGGTTCCTCAAAGGCCCTTCTCAGGGCCACCCA

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FIGURE 1090

MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDAVYTE
HAKRKTVTAMDVVYALKRQGRTLYGFGG

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FIGURE 1091

ATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTGTGGAAGGTGTAGGGAGTGAA
GTCTCACATAGGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCAGTTAGCAGAATCAAGACCTACACCATC
ACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCTGTGCTGATCCACAAGCCACG
TGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACATGATCCAGACCAAGCCAACA
GGAACCCAGCAATCGACCAATACAGCTGTGACCCTGACTGGCTAG

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FIGURE 1092

MRLILALLGICSLTAYIVEGVGSEVSHRRITCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSMDRKSNTNRNMIQTKPTGTQQSTNTAVTLTG

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FIGURE 1093A

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGGCCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCCCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCTCACCTGCTTCTCACCCGGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCCGCTGTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCCCGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGGCGCTGGCTGCCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAAGTGCCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTGCTTA
GGAGAAATGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCGTTGCCTTGTATTTCAGAGAA
CAGATGATTCTTTGGGATTGGGACTTAAACAAATGGTATAAGCCTCATTATCAAAATTCTGGAGGTGGAATGGA
GTTGATCTTTCAGTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAACTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGACCTCACCAAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCTTTTAAATCAAAATCTACTGACTATCCCGAAGCAAAGGTCATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTTCCAACCATGGACCAGTGTCT
ACTGGCCCTCTAACTAATCGATCACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGA
AAATCAGGTGAAGAAGAAAACATTTTCTCGAAGAATCATTCAAACCTATGGAACCTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAATATTTTCTG
GCATTAGAAAATGGCTATCGAGACATTCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTCTTGGCTTACAGCAGATCCACAATGGTGTGGAACAGGAAATGAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTCTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCTGTCTTCAAACATTCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCCCTCAGGCAGTTTATACAATGACAGATCTGTCTG
GAAAATCATCATGTGCGTCAGCTTGAATCTATATCTTCTCGCCGAGAATACAACCTCCTTCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTCTGTTTTTGTAGTATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTGTGAT
TTTCTCGCAGAATTCAATGCCAAGGCCAAATGATGTAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCG
CCTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAGTTCGAGACTTGCAATTGAA
ATGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCC
ATTCATGGATCGTTCTTCTCCTCAACTAGCAAACTCCAAGAATCTTTATCACCCACATAGTGGGTCCCTGTG
TAACTCCTATGATGCTGCTGGTTTGTACCAGGTGAGTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGG
TGATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAATGGAAAACAATCTAAATCCAAAACCAAG
AAGGAAAAGCAGACGGCGAATATTTTGTGAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAAT
CGTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAAGTGCAGGTGGAGAATTCTCCTTACCTCAAGCAGA
TGAGATTGAGTAATTGAAGAGGCAGATGAAGAGGAATAGCGACAGTTGAGTAAAGAAAAGTCATATTGAAGA
AGCCCAGAGGGTTGTGCCAGGGGCGAGAAATCATTGCTAGTGTTCACCGCTGACTCTCAACTGACCATTCCCA
TGTGGACAGGCCTTAATACTGTGAGAGGATCCTTGTCTGCTGGCAGTTTCCCACTCCTATGCATTTTACAGGA
ACTAGAAAATATTCTTAAACCAAAAAATACCATCCGTGTTGACCCATGTTGCAGAGCCCTTACTTAAATCCTTCA

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FIGURE 1093B

CTGGTGTATGAATACTTTGTCATAATGCTGCTTTGCTGGGTAGTGAGCTCTTATTTTTCTACTGGGGGTCAGCTAT
AACTAAAACTCAAGTGACATAATTCAGTTACCAAAGTGCCAGGAACTTTTGCTTTTATGAAAAATAGATTTCAT
ATTGTATTTCCAGTGTGTCTTTTAIGTCTTTGAATGTTTTGGAGAAAAGTCTATGCCTGTCTAAAAATGAATCC
AGTGTTCCTTTCTGAGGGATTTCTGCTCAATGCAATACACTGTTTCAGTGTCTATTCTCCAGCTAGGTTTATCCA
TGAAGGACTGAGTGACCTTTGTTGTATTTAACAAAATCCAGGTGCATCAATTTCTGATGCTTTTTACTATTGTGT
ATTATCTACTATGTGTGTTTTATTTCTGCTGAGAGTATTCAGGTTTGCCATGGACATCAGAAGTTTGAATTCAG
TCTATCTTATGTTCCATGGCTGAATTTTAAAGCTGTTTAGGTTTAAACAATGAAGGGATTTATTCTTTAGTCAAA
ATTGTTGTTTTTACTCTAGCTCAGGATTCGTATTTTTTAAAGATTTAGTTAATATAAACACAGCACAGATTTGTCA
GAAGAAAAAAATTTGCTGTAATACCAAACTAACCTCATCAAAGATACAGAAAAAAGAAATATAGTGAGCCCT
AAAGGACACATACATTGAATAAATAATTGGAACATGTGGTTATCTTTAGATCCACATCTTAGCTGTCATTTGTTT
ACTCTAAAACGTATGTTTCATCTTTCTGTTAATTTCCCTCTGCCCTAAAGACTACATGACAGAAATGACCTATCACT
ACTTATTTATTTCTGAAGCCTAACTGCAAGACTGATTTCTGAGAACAAGTAAAGAACTGGAATACTTATTTTTTCAT
ATAAAAATCTAAATGTGTTAATAAATCATTTCATACAAAAGTACATTATTAAATAACCACATTATTAAAAATAATT
GCAAGAAAAATGGACCATATTTACAATGTTTTGTAAACTTGCTAGTGTGTGGATATGTACCCTACTTGTGAAATAC
ATTTGAAGATATAAAGAGCAGCCAAAATGATGGCAAAATGGTAGGCTAATATTTTCTATTATTATTGGAGAACAT
ATCATATTTTGAATCATGCAATTTTGACACAGTGAAACCATTAAATTTTCCAAGGTAATTCCTTTAGAATATGG
TATTGGCATGCAGTTTCTTACTTATCTAGAATATTTGGCTTATCTGAAAGATATCAATTTAAGATCTCTGGAAGT
GTTAGAATTTTTGATCCTTCACAGTGTCAATATTTAATGAATCACTAAGCTTTATTTATTAGACGTGTTGAGTGA
GTGCTGAGTTCCTTGCTGCCACTTTTGTTACCATTGTACACACTATGTGTAAACCAGTCCCACCACCTATTACT
AATAAAATTTTGACTGATAATTTATATTGCACTTACAATATATATATCTGTCCTTATATTTCTCTAGAGTACA
TTTTCCATCATGTTTAAGTGTATTTCTGCTATTATTTCTCTCCTGCAGAATACATACAAGTGTATGTGTATAAA
GTCATACATGTACAAGCATGCATATTGAGATTGAATCACATTTCCATACTGTCTGTTATTTTATTGGGTTTTATA
TTGGGTTTCTTTAGTTTATGTTGTTTTCTCAAAAGCAGCATTTTAAATTACGAATACTGGACTTATTGGATTTAA
TTATAAATCCAATTACTACTGGAACTCATTTTTACATAATATAGTCCTTAAATTATTTAACCCTTGCTAAGTAA
TTGACATATGTAACAATACTAGCCTAAAGAAACCCAAAAAAGTATCTCTCCCGAGCTGAACTTAAAAATTG
TAAGTGTAAAGAAAGATGTGAGAATATATTAAATGCACACTGTACCATTAGATGAAATCTTACTTGAGAAATTGC
CATAAGCCATATTACAGATCTTACTTTGATTGTACTGAATCAGATTAATTTCTTGTATAATAATTTTCATCAT
AAATTTTCTATTTTTTAAAGCCGCTGGTACTAGAAATATCTTTTAAATGCTATATCTATGTACCTACTGACACATT
TTTCTCCATAAAAGTACTTTTAAAAATTACTTCATGATTG

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FIGURE 1094

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDIAAFVLALLLGAEPESWAAGAAWLRLLSVCSHSLSPLFSIACAFFFLTCLTRTKRGPGPGRSCG
SWWLLALPACCYLGDFLVWQWWSWPWGDGDAGSAAPHTPPEAAAGRLLLVLSVGLLLTLAHPLRLRHCVLVLLL
ASFVWVVSFTSLGSLPSALRPLLGLVGGAGCLLALGLDHEFFQIREAPLHPRLSAAEEKVPVIRPRRRSSCVSL
GETAASYYGSKIFRRPSLPCISREQMILWDWDLKQWYKPHYQNSGGNGVDLSVLNEARNMVSDLLTDPSPQPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFFPGFYPCSEIEDPAEKGDRLNKLNRNSLPTQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNGPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSPVNSSNHGPVS
TGPLTNRSPIEF PDTADFLNKPSVILQRLGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTSESDGTDCCSG
KSGEEENIFSKEFKLMEQEEETEKDSRKLQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFPFIFELVEKMGEKSGRIISQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDIPYHNRIHATDVLHAVW
YLTTTPVPGLQQIHNGCGTNETDSDGRINHGR IAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PGRTNALVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLLHLDHVEFKRFRFLVIEAILATDLKKHFD
FLAEFNAKAK

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FIGURE 1095

GTTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGGAATGGTGGGCACAGTGGCTGTCACTGTATGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGCTCATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAACCCAAAAAGTTATCACACCGGAAAGAA
GTCACCGAGCGCTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTTAACTTTACTATAAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG
ATGAGTGTAAACATTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCCATTTATAATGAAGATTAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAAGCTTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTTCTTGTGTATTAAATTAACTTTTTAAAAAGCAGATATTTTGTCAAGGGGCTTGCATT
CAAAGTCTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAATATTTTTGTTTTGTATTGGAAGAAGATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAGAGCAGAAAAATATGTCTTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATTGTCATTTTGTCTGTGAAAAATAAATTTCTTCTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTCTGTTTATTCCAAATTTGATGAAACTGACAATCCAATTTGAAAGTTTGTGTCGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1096

MATHALEIAGLFLGGVGMVGTIVAVTVMPQWRVSAFIENNIVVFENFWEGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1097

CCACGCGTCCGGTTATCAGCAGGATCCATGCCGCCAGAGTAAAGCTTTCTACCCTTTACTCCCTGCAAAGAAACA
AGAGTGCTTATCCCAGCTAAGCTCCAGGGTTAAAACCTCTATGCTGGTCATTCCCTTCAGGATTGGCACTCACCA
ACATACCCTTCTTTCAAGTGAAAAGGCATCTCTTTAATGGTCCTGACCTTTGGAATAGGAAGCATGTACCCTGG
ACAGAGCACTTCAAACCTAGAGGAACCATAAATCCATGGCTAACCTTGACAAAATACACTGAAACATTCAAGATGGG
TAGCAACAGTACCAGCACTGCTGAGATTTACTGTAATGTCACCTAATGTGAAATTTCAATACTCCCTCTATGCAAC
CACCTATATCCTCATATTCATTCTGCTCTTCTGGCTAACAGTGCAGCCTTGTGGGTTCTGTGCCGCTTCATCAG
CAAGAAAAATAAGCCATCATTTTCATGATCAACCTCTCTGTGGCTGACCTTGCTCATGTATTATCTTTACCCCT
CCGGATTTACTATTACATCAGCCACCACTGGCCTTTCCAGAGAGCCCTTTGCCTGCTCTGCTTCTACCTGAAGTA
TCTCAACATGTATGCCAGCATTTGTTTCCTGACGTGCATCAGTCTTCAAAGGTGCTTTTTTCTCCTCAAGCCCTT
CAGGGCCAGAGACTGGAAGCGTAGGTACGATGTGGGCATCAGTGTGCCATCTGGATCGTTGTGGGGACTGCCTG
TTTGCCATTTCCCATCCTGAGAAGCACAGACTTAAACAACAACAAGTCCTGCTTTGCTGATCTTGGATACAAGCA
AATGAATGCAGTTGCGTTGGTCGGGATGATTACAGTTGCTGAGCTTGCAAGGATTTGTGATCCCACTGATCATCAT
CGCATGGTGTACCTGAAAACCTACTATATCCTTGAGACAGCCACCAATGGCTTTCCAAGGGATCAGTGAGAGGCA
GAAAGCACTGCGGATGGTGTTCATGTGTGCTGCAGTCTTCTTCATCTGCTTCACTCCCTATCATATTAACCTTTAT
TTTTTACACCATGGTAAAGGAAACCATCATTAGCAGTTGTCCCGTTGTCCGAATCGCACTGTATTTCCACCCTTT
TTGCCTGTGCCCTTGCAAGTCTCTGCTGCCTTTTGGATCCAATTCTTTATTACTTTATGGCTTCAGAGTTTCGTGA
CCAACCTATCCCGCCATGGCAGTTCTGTGACCCGCTCCCGCCTCATGAGCAAGGAGAGTGGTTTCATCAATGATTGG
CTAAAATTAAGATATCTCTTTAATTACGCCCTTTGTTTACCTACGTTTCTTGTCTTTTTTCAAAGGCCAGAATTGT
CAACCAATTTCTTTAATTGAACATTGTAAAAAACAGGAATAAGTACTTTTGTGTAATATTCACAGTCAACAGGGG
TGTGATGGTGAAGGCAGAGTGTGAAAAACGTGAGAGAGGAAGAGAAAATAGATTTACCTGATT

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FIGURE 1098

RNHKSMANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLCRFISKKNKAI
IFMINLSVADLAHVLSLPLRIYYYISHHWPFQALCLLCFYLKYLNMYSICFLTCISLQRCFFLLKPPFRARDWK
RRYDVGISAAIWIVVGTA CLPFPILRSTDLNNNKSCFADLGKQMNVALVGMITVAELAGFVIPVIIIAWCTWK
TTISLRQPPMAFQGISERQKALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISSCPVVRIALYFHPFCLCLAS
LCCLLDPILYYFMASEFRDQLSRHGSSVTRSLMSKESGSSMIG

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FIGURE 1099

GGCACGAGGGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTC
AGACTCTCCTGTCCACAAAACCTCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCAAGCCCGATGCATATG
ACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGG
CAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATG
AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGC
GTTTGCTTTTCTTACAAAGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTG
ACCTTGAGAGCAACGAGGAAGAAGGTGACAGTTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCCAGATAGCC
ACTCGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTG
GGAAAGGGTTGATAAGCGGCAAGGAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTTTCGACAGCCC
CTGAATCCTATGAGGAAGTGAATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAA
TTCAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGG
AATACGTTGGCGATTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATC
ATCTTTGCCAGATGTTTCTGAACTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGG
AAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGC
TGCTATTTCCAACCTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCA
AGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTATGTGGCTT
TGTCACAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAA
GCCAAGGTTTCACTCTGGTGACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAACTGCTCGTGGTGTCTGCTAGAG
AGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGTCTCGAATTCCCAGCTCAGGTAATCCACCT
GCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACCCAGCCAAAAAGTAATTTTTTTAGAGTAATAATGCT
ATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACCCTGCTGCGGTTTTGTTTCTGTTAAACGTCACC
TGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTT
CACTGCGTCTGGACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGGC
TTCATGTGTAGAATTTACTGTTGTTATGCAAATTATATTTTCAATTATAAATGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1100

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTAA
AAAACAGGATGACCAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAATTGTGAAAAATAATCAGCAGCCGGATGTGGATAACCCCTTTCAAATTTCTCCTGGGGCCTCCAACCA
CCCCACTGGTGTTCCTGCTGACAGTGATTTCAATTTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTTGAACCTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTCCAAGGAGACCAGGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGAGCACTTTCCCAATGCC
ATTCTCCTCACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTTGGGCCAGCAACA
AGTTTATTATACCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGTGGCCAGACTGTTACCTGGGTTCCTATATCTTCTCACTAGGCAAGTCTTGCAGGC
CTGGGCTCTACCTAACCCCCCTACCAGAAGCTTGTAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGTACCTCAGACTGATGAAGGA
GCTAACACCCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCACGAATTCTCCATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCCTTGGCTACAACCACTACTA
ATGTCCCTTCTCTCTGCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAGGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAATACCCTACTAATATACTCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCCTGCACAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAGGAAAACCCATAGGTGGAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACCTAAATGGCCTCTGTGTCATATGTCCTTCTAACACACCACACAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAACTGTCTGGAATTACATAAATATAATTGAGAAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAAACCCAATCCAAGGAAAATAAGAATAACAGTAAAGTGTTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAAGATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAAGTGAAGATTGGTTCTCTAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1101

MLVNELNHSKEKECQYEKEKAEREVAVRQLQOKRDDVLNKGSA TKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGD TQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSMLMLQVFES

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FIGURE 1102A

ATGGCGGCGGCGGCGGGGAATCGCGCCTCGTCGTCGGGATTCCCGGGCGCCAGGGCTACGAGCCCTGAGGCAGGC
GGCGGCGGAGGAGCCCTCAAGGCGAGCAGCGCGCGCGGCTGCCGCGGGACTGCTGCGGGAGGCGGGCAGCGGG
GGCCGCGAGCGGGCGGACTGGCGGCGGCGGAGCTGCGCAAAGTGGGAGTGTGGAGCTGGACCAGCTGCCTGAG
CAGCCGCTCTTCTTGGCGCCTACCGCGCGGCTCCTCGACTTCCCGTGGCGGAGCCCGCGGACGCGAGCGGGG
AGTGGGACCGGCTTCCAGCCTGTGGCGGTGCCGCCGCCACGGAGCCGCCAGCCGGCGGCGGCCACCTTACC
GAGTCGGTGGCGGCGCGGACAGCGGCGCCTCGAGTCCCGCAGCGGCCGAGCCGGGGAGAAGCGGGCGCCGCC
GCCGAGCCGTCTCTGAGCGGCCCCCGCGGTCTGAGATGGAGAATAAAGAACTCTCAAAGGGTTGCACAAG
ATGGATGATCGTCCAGAGGAACGAATGATCAGGGAGAACTGAAGGCAACCTGTATGCCAGCCTGGAAGCACGAA
TGTTTGGAAAGGAGAAATAGGCGAGGGCCTGTGGTGGTAAAACCAATCCCAGTTAAAGGAGATGGATCTGAAATG
AATCACTTAGCAGCTGAGTCTCCAGGAGAGGTCCAGGCAAGTGGCGCTTACCAGCTTCCAAAGGCCGACGAGT
CCTTCTCTGGCAACTCCCCATCAGGTGCGCACAGTGAATCAGAATCTCCAGGAGTAAGGAGAAAAAGAGTTTCC
CCAGTGCCTTTTCCAGAGTGGCAGAATCACACCACCCGAAGAGCCCTTACCAGATGGCTTCTACCATATAGC
CTTGAGGAAACAAACCGCCGTGTTAACAAAGTGATGCGGGCCAGACTGTACTTACTGCAGCAGATAGGGCCTAAC
TCTTCTGATTGGAGGAGACAGCCAGACAATAAATACCGGTGTTTATTGGGCCTCAGAACTGCAGCTGTGCA
CGTGAACATTCTGTATTATCTGCTATTTGTGATGCTCCGGGTGTTTCAACTAGAACCTTCAGACCCAATGTTA
TGGAGAAAACTTTAAAGAATTTGAGGTTGAGAGTTTGTCCAGAAATATCACAGTAAGCGTAGCTCAAGGATC
AAAGCTCCATCTCGTAACACCATCCAGAAGTTTGTTCACGCGATGTCAAATTCTCATACTTGTATCATCTAGT
ACTTCTACATCTAGTTCAGAAAACAGCATAAAGGATGAAGAGGAACAGATGTGTCTATTTGCTTGTGGGCATG
CTTGATGAAGAAAGTCTTACAGTGTGTGAAGACGGCTGCAGGAACAAGCTGCACCACCTGCATGTCAATTTGG
GCAGAAGAGTGTAGAAGAAATAGAGAACCTTTAATATGTCCCTTTGTAGATCTAAGTGGAGATCTCATGATTTT
TACAGCCACGAGTTGTCAAGTCTGTGGATTCCCTTCTTCCCTCAGAGCTGCACAGCAGCAAACCGTACAGCAG
CAGCCTTTGGCTGGATCACGAAGGAATCAAGAGAGCAATTTTAACCTTACTCATTATGGAAGTACGAAATCCCT
CCTGCTTACAAAGATTTAGCTGAGCCATGGATTAGGTGTTTGAATGGAAGTCTGTTGGCTGCTATTTTCTAGA
AACTGGAATGTGAGAGAGATGGCCCTCAGGCGTCTTTCCCATGATGTGAGTGGGGCCCTGCTGTGGCAATGGG
GAGAGCACTGGAATTTGGGGGAGCAGTGAAGCAGCCGAGTGGGGGAGCCACAGTGGGTCTTCCAGACC
AGTATCTCAGGAGATGTGGTGGAGGCATGCTGCAGCGTTCTGTCAATGGTCTGTGCTGACCCTGTCTACAAAGT
TACGTTGCTGCTTTAAAAACATTGAGAGCCATGCTGGTATATACTCTTCCACAGTTTAGCGGAAAGAATCAAA
CTTCAGAGACTTCTCCAGCCAGTTGTAGACACCATCTAGTCAAATGTGCAGATGCCAATAGCCGCACAAGTCAG
CTGTCCATATCAACACTGTTGGAAGTGTGCAAGGCCAAGCAGGAGAGTTGGCAGTTGGCAGAGAAATACTAAAA
GCTGGATCCATTGGTATTGGTGGTGTGATTATGTCTTAAATGTATTCTTGGAAACCAAACTGAATCAAACAAT
TGGCAAGAACTTCTTGGCCGCTTTGTCTTATAGATAGACTGTGTTGGAATTTCTGCTGAATTTATCTCAT
ATTGTGCTAGTACTGATGTTTACAAGCTGAGCCTGTTGAAATCAGGTATAAGAAGCTGCTGTCCCTCTTAACCTT
GCTTGTGAGTCCATTAATAATTCCCACTCAATGGTTGGCAAACTTCCAGAAGGATCTACTTGAGTTCTGCAAGA
ATGGTTACTACAGTACCCCATGTGTTTTCAAAGTGTAGAAATGCTGAGTGTTCAGTTCCACTCACTTCACC
AGGATGCGTCGCCGTTTGATGGCTATTGCAGATGAGGTGGAAATGCCGAAGCCATCCAGTTGGGCGTAGAAGAC
ACTTTGGATGGTCAACAGGACAGCTTCTTGCAGGCATCTGTTCCCAACAACATCTGGAAGCCACAGAGAACAGT
TCCCTGAGTGCACAATCCATTTAGAGAAAAGTGAAGGATTATGTGCTACAAATGAGTGCCAGTTTCCAGAG
GACATTTCTGAGAGACTGGCCAGCATTTAGTAGGACCTTCTAGTTCAACTACTAATACTACTACAAACAGAG
GCAACCAAGCCAATGGTTCAAACAAAAGGAGACCCACAGTCAAGTGTGTAAGTCTCTCTCTTATCTCATCA
TTCCCAATTAATGTTTCCAGCCTTGTCAACCCCTTCTTCTTACCCCATCTGTACCAGCTGGCACTGCAACAGA
TGTCTCTAAGCATAGACTTCAGGGATTCAATCCCTGCAGAATACCTTCTGCATCTCTCAAACACAGCGCAAGTT
TTCTCTACAATTCACAGAACTGTCTGAAAACAAAGACTCAGATAAACTTTCCCGAGTCTTTACTCAGTCAAG
ACCCTTGCCCTCCAGTAACATACAGGCCAAAGCCATCTCGACCTACCCAGGTAATACAAGTAAACAGGGAGA
TCCCTCAAAAAATAGCATGACACTTGATCTGAACAGTAGTTCCAAATGTGATGACAGCTTTGGCTGTAGCAGCA
TAGTAGTAATGCTGTTATACCCAGTGACGAGACAGTGTTCACCCAGTAGAGGAGAAATGCAGATTAGATGTCAA
TACAGAGCTCAACTCCAGTATTGAGGACCTTCTGAAGCATCTATGCCTTCAAGTGATACAACAGTAACCTTTAA
GTCAGAAGTTGCTGTCTCTGAAAAGGCTGAAAATGATGATACCTACAAAGATGATGTGAATCATAATCA
AAAGTGCAAAGAGAAGATGGAAGCTGAAGAAGAAGCTTTAGCAATTGCCATGGCAATGTCAGCGTCTCAGGA

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FIGURE 1102B

TGCCCTCCCCATAGTTCTCAGCTGCAGGTTGAAAATGGAGAAGATATCATCATTATTCAACAGGATACACCAGA
GACTCTACCAGGACATACCAAAGCAAAACAACCGTATAGAGAAGACACTGAATGGCTGAAAGGTCAACAGATAGG
CCTTGGAGCATTTTTCTTCTTGTATCAGGCTCAAGATGTGGAACTGGAACCTTAATGGCTGTTAAACAGGTGAC
TTATGTGCAAAACACATCTTCTGAGCAAGAAGAAGTAGTAGAAGCACTAAGAGAAGAGATAAGAATGATGAGCCA
TCTGAATCATCCAAACATCATTAGGATGTTGGGAGCCACGTGTGAGAAGAGCAATTACAATCTCTTCATTGAATG
GATGGCAGGGGGATCGGTGGCTCATTGCTGAGTAAATATGGAGCCTTCAAAGAATCAGTAGTTATTAATACTACAC
TGAACAGTTACTCCGTGGCCTTTTCGTATCTCCATGAAAACCAAATCATTACAGAGATGTCAAAGGTGCCAATTT
GCTAATTGACAGCACTGGTCAGAGACTAAGAATTGCAGATTTTGGAGCTGCAGCCAGGTTGGCATCAAAAGGAAC
TGGTGCAGGAGAGTTTACGGGACAATTACTGGGGACAATTGCATTTATGGCACCTGAGGTACTAAGAGGTCAACA
GTATGGAAGGAGCTGTGATGTATGGAGTGTGGCTGTGCTATTATAGAAATGGCTTGTGCAAAACCAACATGGAA
TGCAGAAAAACACTCCAATCATCTTGCTTGTATTTAAGATTGCTAGTGCAACTACTGCTCCATCGATCCCTTC
ACATTTGTCTCTGTTTACGAGATGTGGCTCTTCGTTGTTTGAAGCTTCAACCTCAGGACAGACCTCCATCAAG
AGAGCTACTGAAGCATCCAGTCTTTCGTACTACATGGTAGCCAATTATGCAGATCAACTACAGTAGAAACAGGAT
GCTCAACAAGAGAAAAAACTTGTGGGGAACCACTTGATATTCTACTGGCCATGATGCCACTGAACAGCTATG
AACGAGGCCAGTGGGGAACCCCTTACCTAAGTATGTGATTGACAAATCATGATCTGTACCTAAGCTCAGTATGCAA
AAGCCCAACTAGTGCAGAACTGTAACTGTGCCTTTCAAAGAACTGGCCCTAGGTGAACAGGAAAAACAATGAA
GTTTGCACTACTAAATTGCAGAAGCATAATTTTATTTTTTGGAGCACTTTTTCAGCAATATTAGCGGCTGAGGG
GCTCAGGATCTATTTTAAATATTTCAATTATTCTTCCATTTTATATAGTATCACAAGCAGGGGGTTCTGCAATTC
CGTTCAAATTTTTTGTCTACTGGCTATAAAATCAGTATCTGCCTCTTTTAGGTCAGAGTATGCTATGAGTAGCAAT
ACATACATATATTTTTAAAGTTGATACTTCTTTATGACCCACAGTTGACCTTTATTTTCTTAAATACCAGGGCA
GTTGTGGCTCATTGTGCATTTTACTGTTGGCCATTCTTTTCGTTTTTGGAAATTATGGTTTTGTATTTTCAIGT
TTATTTACATTCATTTTTTGTATTTCAGGGAAAGCTGATCTTTTTTCAAACCAGAAAAAAATGAAGTAGAT
ATGAAGTAGAGTTTCATTAAATATCTTGCTATTGTGAGAGTTTTTAAATATAGACTTAATTTTGTTTTTTAAAT
TGGAATACAATAAAGTACTACCTACATTTGAGTCAGTCACCACTCTTATTGTGCAGGTTAAGTACAAGTTAACTA
AAAATAAAGTGTCTCTCTGCTGCAACTCACAACCAAGATCAAGATTACCTTAAATTTTATTTGAATTTTTTAGA
TGTTTTGGTTGTCAAAGTGTAGGAACTTCACAACATTTAAGTCTTACTCTGTATGTAACAATCCATCATTACC
TTCACTACTGGTAATAACATAGAGCTGCCATTTTCTTTTACCATGCATCATCTCTTACAGTAGGCCTGGCAGA
TCATTTTTTAAAAAGATTATTCAACTACCAATCAGTAATGTTTTTAAACAGTACATTTGCTTTGAACTTGGAAAA
TGTGTTTCAAGAAAGAAAAATGGAATTGAATTTTCAATTTATACACTAATTCCTTGGATTTTGCACAGTTACCTAACGG
TTTTAGTCTGGAGTTAAATTCAGATGCATGGAATCCTGAAGGAAATGGTAGCTTTTAAATCTTTTTGTGTGTGT
GTGAGTCTTTTTAAATCAAGTACTGATTAACATTAAGTACAACCTTGAGATTTTAGTTTTAACTCTTCAGAAGCC
AGTGTGAAATAGAATTGGTTATTCTCAAAGACTCAGGATAAACTAAATAAGCTATATATAGAGTACATTTAAAT
GTACAACACAAATTGGAAGTAAATAAGTTACAAGATAAGTTTACAGGGATATATTGCTTACAATTTTTAAAGG
CAGTTTGTTTTTTATGTGAATATGTTTCTTAGTGAAATTTTACATTCCTTTGTTTTGGAAGATTGGCGATATTG
AAGAGTTAAAAATAGTACAGAAATGTGAAGTTTGGTATCTCTAAATGTGTTGTACTTGACTTTCTTTTTTATTTT
TTTTTATTTTTTTTGTACTACTTAGAATTTTACAATTTCTAATAAGATTGTTTCCAAGTCTCTCATGTGCAAGCTT
TAAAGGATGCACTCTTGCCATTTTATGTACTGGAAGATCATTGGTCAGATGAATACTGTGTCTGACAAAAATGTA
AACTGTATAAACTGAGGAACCTCAGCTAATCAGTATTACTTTGTAGATCACCATGCCACCACATTTCAAACCTCA
AACTATCTGTAGATTTCAAATCCATTGTGTTTGGAGTTTGTGTTGCAGTTCCCTCAGCTTGCTGGTAATTGTGGTG
TTTTGTTTTTTGTTTTGTTTTCAATGCAAATGTGATGTAATATTCTTATTTTCTTTGGATCAAAGCTGGACTGGA
AATTGTATCGTGAATTTATTTTTGTGTTCTTAATGTTATTTGGTACTCAAGTTGTAATAACGTCTACTACTGTT
TATTCAGTTTCTACTACCTCAGGTGTCCTATAGATTTTCTTCTACCAAAGTTCATTTTACAATGAAATTATA
TTTGCTGTGTGACTATGATTCCTAAGATTTCCAGGGCTAAGGGCTAACTTCTATTAGCACCTTACTGTGTAAGC
AAATGTTACAAAAAAGACAAGAAAAAATCTCTGGGTTAAGAAAAATTTGGCTTAAATGTATCCTTTGTATTTT
AAATATATTGAGATTTTTAATTAATAATTTTACCCCATTTGAACCGATTTTATAGTATTGTACCTATTTTGGTG
TTTTTGTCTTTATAGTAAATAAAAGTTTTTGAACAAAAAAAAGTCGACGCGG

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FIGURE 1103

MAAAAGNRASSSGFFGARATSPEAGGGGALKASSARAAAAGLLREAGSGGRERADWRRRQLRKVRSVELDQLPE
QPLFLAASPPASSTSPSPEPADAAGSGTGFPVAVPPPHGAASRRGAHLTESVAAPDSGASSPAAAEPEGKRAPA
AEPSPAAAPAGREMENKETLKGLHKMDRPEERMIREKLKATCMPAWKHEWLERRNRGPVVVKPIPVKGDGSEM
NHLAAESPGEVQASAASPASKGRRSPSPGNPSGRTVKSESPGVRRKRVSPVPFQSGRITPPRRAPSPDGFSPYS
PEETNRRVNVKVMRRLYLLQQIGPNSFLIGGSDPDNKYRVFIGPQNCSCARGTFCIHLLFVMLRVFQLEPSDPM
WRKTLKNFEVESLFQKYHSKRSSRIKAPSRNTIQKFVSRMSNSHTLSSSSTSTSSSENSIKDEEEQMCPICLLGM
LDEESLTVCEDGCRNKLHHHCMSIWAEECRNRNREPLICPLCRSKWRSHDFYSHELSSPVDSPSSLRAAQQQTVQQ
QPLAGSRRNQESNFNLTHTYGTQQIPPAYKDLEPWIQVFGMELVGCLFSRNWNVREMLRRLSHDVSGALLLANG
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVLMSVCADPVYKVYAALKTLRAMLVYTPCHSLAERIK
LQRLQPVVDITILVKCADANSRTSQLSISTLLELCKGQAGELAVGREILKAGSIGIGGVYVNLNCILGNQTESNN
WQELLGRCLIDRLLLEFPAEFYPHIVSTDVSQAEPVEIRYKLLSLLTFALQSINNNSHSMVGKLSRRIYLSAR
MVTTPVPHVFSKLEMLSVSSSTHFTMRRLMAIADEVEIAEAIQLGVEDTLDGQDQSFQASVPNNYLETTENS
SPECTIHLEKTGKGLCATKLSASSEDISERLASISVGPSSSTTNNYYNNRATKANGSNKRQTPQSVFELLSFISS
FPINVSSLVNPFFFFYPICTSWHCNRCLKHRLQGFIPCRIPSASPQTQRKFSLQFHRNCPENKDSKLSPVFTQSR
PLPSSNIHRPKPSRPTPGNTSKQGDPSKNSMTLDLNSSSKCDDSFGCSSNSSNAVIPSDETFTVTPVEEKCRLDVN
TELNSSIEDLLEASMPSSDTTTFKSEVAVLSPEKAENDDTYKDDVNHNQKCKEKEAEEEEALAIAMAMSASQD
ALPIVQQLQVENGEDIIIIQQDTPETLPGHTKAKOPYREDTEWLKQQIGLGAFSSCYQAQDVGTGLMAVKQVT
YVRNTSSEQEEVVEALREEIRMMSHLNHPNIIRMLGATCEKSNYNLFIEWMAGGSVAHLLSKYGAFKESVVINYT
EQLLRGLSYLHENQIIHRDVKGANLLIDSTGQRLRIADFGAAARLASKGTGAGEFQQLLGTIAFMAPEVLRGQQ
YGRSCDVWSVGCAIEMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLQLQDRPPSR
ELLKHPVFRTTW

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FIGURE 1104A

GTTTAGTGTAACTCAGCTACACTGAAGGAATAGACCTTAGTCTCACAAGTATAAGTTCTAGCTTGAAGCCT
GGTTTCTGCAGTAGCTGTGGAACCTAAGCCTCTGAGCTCAGGGATGCAGAGGCATTGAGTTACTACCAAGGGCCT
GATCTTTTCTTTAGCAGGCATCTGTGTTAATTGTTTCAAAGGTGGTGATCAGTTTTACAGCCTATTATAAAGGA
GATTTTTGCCTACTATAAACTAATCCCCCTGAAAGAGTGAGTAAACATAACTTTTTGTGTGTGACTTCCACAA
GGGAAGGAGTTGGCACTTACACTCTGACTTTTTGATTAGTCGTCCTTCTTGAGCCATTTTTGCAGGGGATCAGTT
TGGAGTGGGCGTTAACAATGTTATTCTTTTTTCTTCTCCAGAACACCTTCCACCATGACCACCTCAGCAAGTTC
CCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATCTG
GATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAGTT
GCCTGAGTGGAAATTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCTGC
TGCCATGTTTTCGGGACCCCTTCCGTAAGGACCCTAACAAGCTGGTGTATGTGAAGTTTTCAAGTACAATCGAAG
GCCTGCAGGTGTGTTATAGCACAGCTATGGATACCCCCTCCTCAATCTGTGAATGCTGTGAAGGGGAGGGAGAAGA
CATTCTGAAATCAGCATTGGGAAGACTAGGCAATTTAGCAGTATTTAAGAATCTGAGTGATTCTTTTCCCTGA
ACTTCTGCTTTGAGGAAGAGATAATATGGCCCATCTTTCTATGGTCTTCTCTGTGTGGTTGCATAAAATAGCATTG
GATTGTGCCAGATCTGTTTGGCGGTCTTGGAGTCCCCAGTAACAGCCTTCTGCTGGAATGTAGGCCAGGACAA
ATGTAAACCAATGGACAAATGTTTCTCAAAAATTATAGAATGGCTCCAAGTGCCTGAGAAATGAAGAATAAATCT
GACAACCAGAAGCAGCTGTCTTGTGAATAGAGGGTTAAGTGCCTGGCATTGGTGCTTGGGAGGTGGCCAGAATG
CAGATAAGGTGAAAGTTGCCCTGTTCTAAATCCACTCCCATGTGACTTGGTTGTAAGTGTAGTTAGTTAAACTG
AAGTCTTTCAGAGTCTTCTACAGATGTACAATTAACAGCTTCTCTATTTTTCTGACTCGGTGATCCCAAGAAG
GCCTATACTGGGTGAGTTCATACCATAGTGACACCTCAGTTGTATAGAATCCAAGGACTATTCTCCCATCAGCA
TCGGTATTTCAGCATCTATGTCTTTAGATCCCTGATGGCGTATTATTGACTCTTTTTTCTAGAGACCAATTTGAGG
CACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCTC
ATGGGGACAGATGGGCACCCCTTTGGTTGGCTTCCAACGGCTTCCAGGGCCCCAGGGTAAGTCTCCTTGGGTT
AGAGGTGAAATTTCCAGAAGTGTCTAACTGTGAGGAATGCCCTTCCAGGGATGGGAATGACTTTCAGAATCA
AGAAGCAAAATAATACAGTAAAGGCGAAACAGCCCTCACATCACCAAAGTCCAAAATGGATATGAATATATAAA
GTAAGTTTTAGGGGAACGTTTGGCCCCACTGAAGCTGTGGTGAAGAGGAAGTCCCTATTGCCCTCCCCTGC
CCCCACCTGCAGATGAAGGCAAGGATAGTGATTCAAGAGGGCAAGGCTTAAGGGCCTTCTGATCTCTGACTTTG
GGATTCTCTGGATTTCTTGACTCTTAGTGTTTTGTCCTGATGCTTCTGTAGGTCCATATTACTGTGGTGTGGGAG
CAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCATTACCGGGCTGCTTGTATGCTGGAGTCAAGATTGCGG
GGACTAATGCCGAGGTGATGCTGCCCAGGTAAGTATAGCTCCAATCCATCAATGAAGAAGGGTAGGTAGGTGTA
CATAGGACTTTTGTAGTAAGGGCTGCTGATACCACTCACTAACCCAAAACCTAAGAACGGGTGGAGTACAG
GTGAGAAGAGAACAGGTTTAGGAGATTCTGAGTTGGAGTGAGCAGTTAGCTTTGTTTAATGGCCAAGCTTCTCG
TTTCTAGTGGGAATTTAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCTTTTCAT
CTTGATCGTGTGTGAAGACTTTGGAGTGATGCAACCTTTGATCCTAAGCCCATTCCTGGGAAGTGAATGG
TGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTGAGTACCTTCTGCTGG
GGCCATCTTTAATCTCCTGTGGCAGAAAACCTTGGGAGGAGACTTAGCAATCTCTCAGCAAAGTCTCCTTTCAGG
ATGACTTGCAAATATTTGCCAAGATGAGTAAACTTGACTTCTCAGTCTGGACGTACTTTAGGTGTTGACACTTG
CCTTCACATTCTCTCATTTTGTTCCTATTTGAAAAATACCAAATAATACTTCTGATTACAGTGATAAAATATTG
TTATAATTTATATAATATATATTAGTCATATATCATTATATAAATATATATCGATATATATTTGTGACATATG
TCATGGTGACAGGGAAGTTGACAAATTCATGCATTTGAAAATCTTTAGAACTAAATTAGTAACAATACAGGC
ATGTGGATAAGCTTAATGCTTATGAGGGGGAGAAAGTTCAAATGATTAGTCTTTTCAACAAACAGTAACTTTGT
ACTGCTTGTGCGGCACTGTTCTCACCCTGAGACACACAGGTAAGAAGATGCAGCCACTGCCCTCATGAAGTATT
TGTTCTACTGGTATCATATTTTGGTGCACTTCATTCTTGGCTCCATACCTGGAGACAAGGTGGAGTGGCATCTT
TTCTGTTTACTCTAGGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCACCAGTACCACATCCGTGCCCTA
TGATCCCAAGGGAGGCCTGGACAATGCGGACGTCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTC
TGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGA
AGATCGTGGCCCTCTGCCAAGTGCAGCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGCTTCTCAATGA
AACC GGCGATGAGCCCTTCCAGTACAAAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTTCTTC
ATCCCACTCCAACCTCTCCCCCTCTCCAGTTGTCCGATTGTAACCAAGGGTGGAATATCAAGGTGTTTTT

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FIGURE 1104B

TTCATTCCATGTGCCAGTTAATCTTGCTTTCTTTGTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCA
CACCTACCCTCCTTTTTTTCCCTATCACTGAAGCTTTTAGTGCTTAGTGGGGAGGAGGGTGGGGAGACATAAC
CACTGCTTCCATTAAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCAGAAGGGGG
TCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCTCGTGGTGGAA
ACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCA
GAGAGAATGGCTTTGGTCTCTTGCTTGTGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGC
TTAGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAGGTTCTTACTGCTTGGTCCTTGATTTATCACAC
AAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTT
TTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATC
TCATTTTGTAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCCTTTTGGGT
TTCTGCCCTGCCACCCTCTGGAGAAGGTGGGCACCTGGATTAGTTAACAGACAACACGTTACTAGCAGTCACTTG
ATCTCCGTGGCTTTGGTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGGTCAACTTGAG
CATGTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCTTTTGATA
TTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAATCAAATTTGTAGGGTTTCTAGGTAATTTTAC
AGAATTGCTTGTTTCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAAACA
CTTGTAATTTTGTATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAA
ACCCACCTTTTATTCCTTCATTTCTATCTACCATTTTCTGGTTCTTGTGTTGGCTGTGGCAGGCCAGCTGTGGTTT
TCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACT
GTGTAAGTGCCCAAAGCAGCACTTATAAATCAGCCTAACATAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1105

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAGVL

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FIGURE 1106

GCCACAGTGCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCGGTCCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTTGTTTACAGACCACGCAAGGAGTTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTGCGCATAGGCCCACAGTGCTCCAAGGTGGAAGTGTTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGGACGGTGGAACAAGGAAAATCTGATTAAGA
GAAATGAGCACGCATGGAAAAGTTTTCCAGTCTTCAGCAGAGAAGTTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTGTTTTGTTTATTTGTTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGCTTGAATTGTAGGTGACTATTATATTTCCAAGAAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTAAATGTGGAATGATGTTTCATAAGAATTCTGTTGATGGAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTTAAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTACITTTAGAAAGCTGAGTGTTTCACACCTTATCTATGTAGAATATATTTCTTAT
TCAGAAATTTCTAAAAGTTTAAGTTCTATGAGGGCTAATACTTATCTTCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACCTGCCATCATTACTTTTAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCIGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAATTCCTGACTGC
TAGTTTATATAGAAATGTTCTTTTAGTTTTTAAAGTAAAGGCAAACCTTAACAATGACTTGACTCTGAAAGTT
TTGAAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGGATAGGGGACCAGAGAGAGCTTGGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1107

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1108

GTTTTCAATTTCTAAATGCTAATCCTTTTTCTTTCTTCTCTGTCTATGAGTAGGAACCTCTCTCTCCATCCCTGTAGA
ATCTCTTGGACATGTTTATCTCATGCTTATGGGGTCCCCATTTCTTGGAGTGGGATTGACATTGGTGGATTCTGC
TTCAGTGTATCCTTCTTGCAGTCTTATTTGCATGCATGAGTCAACTGTGTGCATCCCATTGTGCTTTCCCCAGGC
CAGTCTCTCATGCCCCATTCCATTTCCCCTGCCCTATAGGCCTCCTTTTCATGTACTCTGCCCCAACGGTTTTGGGGG
ACAATCTGGGCCAGAAAGGGGAGCGCAGCTTGGCACCCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCAT
CGGGGACCATGTGGCCAGGAGCTTTTTCAGGGCTCAGATTGGGCATGGCAGAAGAGGCAGAGAGGCCTGGGGA
GAAAGCCGGCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGCATCTTGGACGAATTCCTTCA
AACGTATGGCAGCCTCATACCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTTCCAGCAGGAGTT
TTCCACCCCTTCCAGGTGAGGCTTGAAAGCCCTCCTTGAAAGAAGGGCTGGGGCCTTGGGGATGTGGAGAGAATA
CTGCTGCCCTTTTTCTTCATAGGGCTGTAGTTGGGGAGGAGGAAGCTAGAGCTGAAGGGGAGGACTCTGCAGGCAG
GTGCCAAATCCTTGGAAAGCTGATGGGAGAGTCTTTACCTGGGACCCTGAAATGTTCTACCTGAGTAGTCATGTTT
ATCTTTCTGGGGAGTGGGCCTTTTCGAGGTCTCAGAAGGACCCATCATGAGCCAGAAAAAGGGAGTCAGTTAG
AATTTGTATTCCAGGGAGTAGTAGGTATTTCTGTGTGCCCCAGCTGCATCATCTTTGTGTGACTCCACCCTTGG
CCTACTCAGGAAGGGCCTGGTGTTCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATGCCATGGTGAGGGG
CTTCCGAGTGGCTTATAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTTGTATGGACAGAACTGGCTCAG
TGACCAGGTGAGAAAGGGTAGAGAAACAGGCCTGAGAGGGGATTGAGGAGCAGGGTGTCTGGGGCCCTCTGCAT
GGGGGAGCCCTGTACCCATGCCGCACCCCTCCATGGCAAGCTGCCTCCCATCTTCTCCCCAGGTGATGAACATGTA
TGGAGACCTGGTCATGGACACAGTCCCTGAAAAGGTAGGCCCAACCAGATAGGTCAGTACCCAGAGGAACTTCTG
CAGTTTTAAGCAGCTTTTTAAGCTCCTTTTCATCTCTTTCAATTTACACAGAGAGGGTCTCTGTTTCAGGGAGAGA
GGTGGTAGTGGTAGTGTATTAATTTCAAATCCGTAATCTTGGGCTCTGGATTTATCAGTTGTTTTCTTTCTGCC
AGTATTTAGTGTTTTTCGCTATGGCCAGCCCCAAGGATTGGGATGGGTTCTATTGTAACATTGTAAAACAAGA
TTT

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FIGURE 1109

MSRNSLSIPVESLGHVYLMMLGSPFLGVGLTLVDSASVYPSCGLICMHESTVCIPLCFPQASLSCPFHFPCPIGL
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGSDLGMAEEAERPGEKAGQHSPLREEHVT
CVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR

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FIGURE 1110

CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACCTCT
GGAGTATTACAGGAGATTTCTGAAAGAGAAGTCCCGTCCTGATGGAAGAGAAGTGGTGAATTCAGAACCAAC
TGTC AACATCGGTTCAATTAGTACCGCAGATGGTTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGG
AGTTAAAGCAGAATTTGCAGCACCATCAACAGATGCCCCCTGATAAAGGATACGTTGTTCTTAATGTGGATCTACC
ACCCCTGTGTTTCATCGAGATTCGGGTCTGGACCTCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTCATTGCAGA
TGTCATTGAAAATTCACAGATAATTCAGAAAGAGGACTTATGCATTTCTCCAGGAAAGCTTGCTGCGGTCTATA
CTGTGATCTCATTTGCCTCGACTACGATGGAAACATTTTGGATGCTGCACATTTGCTTTGCTAGCGGCTTTAAA
AAATGTACAGTTGCCTGAAGTTACTATAAATGAAGAAAGTCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTA
TTTGAATATTAGAACTCATCCAGTTGCAACTTCCTTTGCTGTGTTTGTATGACACTTTGCTTATAGTTGACCCTAC
TGGAGAGGAGGAACATCTGGCAACAGGAACCTTAACAATAGTAATGGATGAGGAAGGCAAACTCTGTTGTCTTCA
CAAACCAGGTGGAAGTGGGCTAACTGGAGCTAACTTCAGGACTGTATGAGCCGAGCAGTTACAAGACACAAAGA
AGTTAAAAAAGTATGGATGAAGTAATTAAGAGTATGAAACCCAAATAAACAGCCACCACATTTTCAAAACAGAT
TTGTAAAAATGTATTTGTTAACACIGTGACAAACGTTTTATACTAAATAAATATCAAACTACAAAAA
AAAAAAGGGCGGCCCGCTTTTTTTTTTTTTTAAATATATACACAAAACTTAGTTTCAGCAAGGCTTCAT
GATATACACCAATTCCAAAATAAAACAATCAATGGTCCAGGTGTAGAAATGCCAGATTCTTTTATCATCTGCGA
GGAAAAGAGAAGCAGGATGAGGAAGAGTGAGGGAAGGCGGGGACAGGCTCTGCCAGAAAGAGCTGCCGCTCTG
GCACAGCAAAACGCTCCAGGCCTGGGCCCTGTTTATCTGGAGTCGGAGGGAGACTCCCATCGGCCGCTTTGGGA
CTGAAAGGCCCAAGGCTGTACCCAGCTCCCGGAAGAGAGGGAGGCAGTCTTGTTTTTGCTGGAAGGGGTTG
GGTGGAGAAAAAGATTACAGGCACATCACCACAGGGGACCAGAAGTGGAGAGAAGACAGAGAGTTCTGCCGAGGC
CTTGGTCTTCTGTCTTTTCAATCTTGCTTCCCAACTCTCCCTGCTTCTTGGGACCATCGGTAGGGGTGGGA
GCAGCAGTCAACACAGCCACTGGGAAGGGAGGCACAAGCAGCACTCCAGCTTCCAGTGCTGCCCTCACACTCA
CCTGGACAGGTGAGGGGACACAGGATGAAAGCCATGCCCCAATCTAAGAGCAAGACAAGTGAAGAGTACTC
TCACTGTGTACCCAGCATAGGAATAGTGAAACCTGCTACAAGTGGAGGCTGCGTTCCCATGACTTCTCTCTCG
CTCTCCTTGCTGGGACTTGCTGGTTCCAGGGGTGCATATAGGGAGGGGGCGGGGGCCACAACCCCGAGACGGT
GAGGACAGGCTTCCGACCCCTGTAAAGCCAGATCCAGTGGGATGTGGGAGAGCTGGGCGGTACCTTCCCTCTT
GCCCCGGTGGCCCATCACACTCACACTGCACCCTGGGCAAGCAGTTCCCTGAACCCCAAGGGGCTCACAAACCT
TAAAGCTGGAGCTTAAAGCCTCCTGGCTTAGTACAAGCAGGAGAAGCCTCACCTTCCACTCCTGCTTGTCTCT
TTGCTCTACCTGGCTCCCTGCCCGAGGGAAAAATATTTACACAGAGTAGGAGACAAATTGGCTGAAAAGCTC
TGGACTGTCTTTAACTTATTTTAAACAAAAA

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FIGURE 1111

MAAGFKTVEPLEYYRFLKENCPRPDGRELGEFRITTTVNIGSISTADGSALVKGNTTVICGVKAEFAAPSTDAPD
KGYVVPNVDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVFD TLLIVDPTGEEH LATGTLTIV
MDEEGKLCCLHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 1112

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCCTTGTCGGGGAGGAGCT
CGTCACCAAACCTGTTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGACGGAGTCAGTCTGCAACTTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCTTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTAAAAAGGCCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
AGGCGGGGAGGTGGGAAAGGTCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAAGTATCG
TGCTGCCAGATTGAGCTGCTGCAACTGCTGGTTTCAGATTGAGCGGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTGTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGGACGAATGGATGAAGAATTTACCAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGACGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTACGATGCAGACCCGCCAGTGAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTGCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGACAGATGTTTGAGCTGGATCTGCCCACTGTGCACTCCATCAT
CAGCAAAATGATCAATTAATGAGGAGCTGATGGCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 1113

MSRFFTTGSDSESESSLGSEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKRFEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKMNKNNAKALSTLRQKIRKYNR
DFESHITSYQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDEDEDESDS
EDDEDWDTGSTSSDSDSEEEEGQTALASRFLKKAPTDEDKAAEKKREDKAKKKHDKRSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENHNADQPLRVRCILTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEEKGTTEEVCRIYLLRILHTYYKFYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRITCAILCHIYHHLHSRWYQARDLMLMSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQEQEKVERRRQVPFHL
HINLELLECVYLVSAMLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFPEADKVRTMLVRKIQEESLRTYLFYSSVYDSISMETLSDMFELDLPVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQNLAQLAEKLGSLVENNERVFDHKQGTYYGYFRDQKDGyrKNEGyMR
RGGYRQQQSQTAY

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FIGURE 1114A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAC TGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCGTGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGACAGAGTTAAACCAGGCCTGGAGCAGCTGGGGAAACGTGCAGATCAGCGCAAGGCCAAAGTTGG
GTGACTCCACAGACCTGCAGCGCTTCCCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGCTGGCAGCTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGA
TGGTGCCCCGGGAGGCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTTGACAAAGCGATTAAAGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAAGTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTAGGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCTTGGAAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCTCACCAACAGGAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGTTCTCGCCGCCAAACACGTTTCACTCAAGGCCATCGAGGCCCGGCACGCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCTTGAAGAAAATCAAAGCTTTGCGCGAGGCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGGCGGAGGAGAGACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1114B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCCA
TGGTGGAGGAAGGGGAACCTGACCCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAGCCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAAGTCTGAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCCTTGCTGCGATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAAATCGAAGCAGCTGGCTCCTCCCCTTGTT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAAA
AAAAAAAC

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FIGURE 1115

GCGACTGTCTCCGCCGAGCCCCGGGGCCAGGTGTCCCGGGCGGCCACGATCGGCCGCGGCTGTGGCTCCTCC
TGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCCTCCAGCAGACCCCTGCATACATAAAGGTGCAAACCA
ACAAGATGGTGATGCTGTCTGCGAGGCTAAAATCTCCCTCAGTAACATGCGCATCTACTGGCTGAGACAGCGCC
AGGCACCGAGCAGTGACAGTCACCACGAGTTCCTGGCCCTCTGGGATTCCGCAAAAGGGACTATCCACGGTGAAG
AGGTGGAACAGGAGAAGATAGCTGTGTTTTCGGGATGCAAGCCGGTTCATTCTCAATCTCACAAGCGTGAAGCCGG
AAGACAGTGGCATCTACTTCTGCATGATCGTCGGGAGCCCCGAGCTGACCTTCGGGAAGGGAAGTCAAGCTGAGTG
TGGTTGATTTCCTTCCCACCACTGCCCAGCCCCACCAAGAAGTCCACCCTCAAGAAGAGAGTGTGCCGGTTACCCA
GGCCAGAGACCCAGAAGGGCCCACTTTGTAGCCCCATCACCTTGGCCTGCTGGTGGCTGGCGTCCTGGTTCTGC
TGGTTTTCCCTGGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGAGCCCGGCTTCGTTTCATGAAACAATAA
GATTACATCCACTGGAGAAATGTTCCAGAATGGACTACTGAATATACAGGCCTCAAGGGGAAGGTATATCAGGAA
CCTTTGTCCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGAAGCTGCTTAACCCATGGATCC
TGAAAACATAGGCAAGAAGCACAGGTCTGTGATGAGTGGATCTTTACTACTTTTACCAGATTCTCCCTCGCTCAG
AGGATCCTCCACACACCCAGCAGAGACTTCTCTGCCACCATCAACCCCCCAAGTCATAGGGGGCTCAAGTTCTG
CCCTGGTGAGCTGTGGCCCCCATCCTTGTGAACCCCAAAGTGTCCCCCTGTGGAACCAAATGTATCCATCTTGA
ATAAATTTGCCCAAAATCCTAAAGACCGGGAAAAGGGAACCATTG

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FIGURE 1116

MRPRLWLLLAQLTVLHGNSVLQQTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQAPSSDSHHEFLALWDS
AKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPTTAQPTKKSTL
KKRVCRLRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQLRLHPLEKCSRMDY

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FIGURE 1117A

GTACTCTCGCGGTATTTGTCCCGACTCTCGCGGGGTTTAGCGTGGCATTGGGAGGCCCGGCCTGGGGGAGGAGAC
GGCGTTCCGTTAGCGCGGTTGGGGTTTGGCTGCAGTGGCAGTGCTTTCTCTCTGCTCACGGGGACCCGCTCAGG
CTGGAGGCCAGCCAGCTCTTGCCGCCACCTCGGTTCGGATGCGGGGGCGCAGGACCGGCCGAGTGCCACTTCGACA
TCGAGATCAACCGGGAGCCGGTTGGTTCGCATTATGTTTCAGCTCTTCTCAGACATATGTCCAAAAACATGCAAAA
ACTTCCTTTGCTTGTGTCTCAGGAGAGAAAGGCCTTGGGAAAACAACTGGGAAGAAGTTATGTTATAAAGGTTCTA
CGTTCATCGTGTGGTTAAAACTTTATGATTACAGGTGGGGACTTCAGTGAAGGTAATGGAAGGTTGGAGAAT
CAATTTATGGTGGATAATTTAAAGATGAAAACTTTATTCTCAAACATGACAGAGCGTTCTTTTATCAATGGCAA
ATCGAGGGAAACATACCAATGGTTCCAGTTTTTCATTACCACAAAGCCTGCTCCACACCTGGATGGGGTGCATG
TAGTCTTTGGACTGGTTATTCTGGTTTTGAAGTAATCGAACAAATTGAAATCTGAAGACCGATGCTGCAAGCA
GACCATATGCAGATGTGCGAGTTATTGACTGTGGAGTACTTGCCACAAAATCAATAAAGATGTTTTGAGAAAA
AAAGGAAGAAACCAACTCATTGAGAAGGCTCGGATTCTCTTCCAATTCTCTCTCTCTTTCAGAAATCATCTTCAG
AAAGTGAACCTGAACATGAGAGAAGCAGAAGGAGGAAACATAAGAGGAGGCCAAAAGTTAAACGTTCTAAAAAGA
GGCGAAAGGAAGCAAGCAGTTGAGAAGGCCAAGGAATAAACATGCAATGAACCCAAAAGGTCAGTCTGAGAGGA
GTGATACCAATGAAAAAAGGTGAGTTGATTCCAGTGCTAAAAGGGGAAAAACCTGTGGTCCGCCCAGAAAGATTCTC
CTCCAGTGCCTGAGAACCGATTTTTACTGAGAAGAGATATGCCTGTTGTTACTGCAGAACCTGAACCGAAGATTCTC
CTGATGTTGCACCCATTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGGCA
CAATTCGCTATCACACACCTCCAAGATCAAGATCCTGTTCTGAGTCAGATGATGATGACAGCAGTGAACTCCTC
CTCAGTGGAAAGAGGAAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAAATGGAGTAAAGGAGATA
AGTTAAGTGACCCCTGTTCAAGCCGATGGGATGAAAGAAGCTTGTCTCAGAGATCCAGATCATGGTCTTATAATG
GATATTATTGACACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAACGCAGAAAAAGAAAAAAGGTTAAGC
ATAAAAAAGAAAGGAAAAAGCAGAAACACTGCAGAAGACACAAACAAAGAAAGAGAAGGATTCTTATACCGT
CTGACATAGAATCCTCAAAATCTTCCACTCGAAGAATGAAATCCTCTTGTGATAGAGAAAGGAGTTCTCGTCTCT
CCTCATTGTCTCATCTCACTCATCAAAGAGAGACTGGTCTAAATCTGATAAGGATGTCCAGAGCTCTTTAACC
ATTCCAGCAGAGACTCATAAGATCAAAATCTCACTCACAGTCTTATTCTAGAGGAAGCTCAAGATCAAGGACTG
CGTCAAAGTCTCATCACATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCCAAGTCTGGGCACCGAAAGAGAG
CATCAAAATCACCAAGAAAAACAGCTTCTCAGTTAAGTGAATAAACCAGTTAAACAGAACCTTTAAGAGCAA
CCATGGCACAAAATGAAATGTAGTAGTACAACAGTTGTAGCAGAAAAATATTCTGTAATACCACTGAGTGACA
GTCCCCCCCCCTTCAAGATGGAAGCCTGGACAGAAACCTTGAAGCCCTCTTATGAGCGAATTCAGGAAATGAAAG
CTAAAAACAACCCATTTGCTACCCATCCAAAGCACTTACAGTTTAGCAAAATATTAAAGAGACTGGTAGCTCATCAT
CCTACCATAAAAGAGAAAAAAATTCGGAAAGTGATCAGAGCACTTATTCAAAATACAGTGATAGAAGTTCAGAAA
GCTCACCAAGGTCAAGGAGCAGATCTTCTAGGAGTAGATCTTATTCCAGATCATATACAAGATCACGTAGTCTAG
CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTACGAAATAAATACAGTGATCATTACAGT
GTAGTAGATCATCTTCATATACTTCTATTAGCAGTGATGATGGAAGGCGAGCTAAGAGGAGACTTAGATCCAGTG
GGAAAAAAATAGCGTTTTCATATAAAAGCATAGCAGCAGCTCTGAAAAGCACTTCACAGTAAATATGTCAAAG
GTAGAGACAGGTCTTCATGTGTGAGAAAGTATAGCGAGAGCAGATCATCTTTAGATTATTCTTCAGACAGTGAGC
AGTCAAGTGTTCAGGCCACACAGTCAGCCAGGAAAAAGAGAAGCAGGGCCAAATGGAAAGAACATATAAAG
AAGAAAAAACAGAGGTGAAGAAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAAAAAAGAACTTTGAAAG
AGAATCTTTCTGATCACCTTAGAAATGGCAGTAAGCCCAAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
AGTCAAATTCAGAACGAGATGTCATAAAACAGTAAAAATGACTCCCATCCATCCTCTGACAAGGAAGAAGGTG
AGGCCACATCCGATTCTGAATCAGAGGTTAGTGAAATTCACATCAAAGTCAAACCCACAACCAAGTCGTCCACAA
ATACTTCACTGCCTGATGATAATGGTGCTTGGAAATCAAGCAAACAGCGCACATCAACTTCTGACTCTGAGGGGT
CCTGTTCCAATTCGGAAAAACAATAGGGGAAAGCCACAAAAGCACAACATGGGTCAAAGGAAAATCTTAAAAAG
AACACACCAAAAAAGTGAAGAGAAATTTGAAGGGAAAAAAGACAAAAAGCATAAGGCTCCAAAACGAAAGCAAG
CATTTCACTGGCAGCCTCCACTAGAATTTGGTGAAGAGGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
AATCAAAAGAGAAAAAAGTTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAAACTGAGAAATCCAGTG
AAGAGGACCTTTGAGGTAAACATGATACAGTGACTGTTTCATCAGATCTTGATCAGTTTACTAAAGATGATAGTA
AACTCAGTATTTCTCCACAGCTTTAAATACTGAGGAAAAATGTGGCCTGTTTACAAAACATTCAGCACGTTGAAG
AAAGTGTTCCCAATGGAGTGAAGATGTGCTTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

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FIGURE 1117B

CCCCAGCAAAAGTAGAGGAGACTTCCCCTCTAGGAAATGCACGGCTTGATACCCAGATATAAACATTGTTTTGA
AGCAGGATATGGCAACGGAACATCCTCAAGCAGAGGTAGTAAACAGGAAAGCAGCATGTCCGAAAGTAAAGTGT
TGGGTGAAGTGGGGAACAGGACAGCAGCTCTGCTAGCTTGGCTAGTGTGGAGAAAGTACCGGAAGAAGGAGG
TGGCTGAGAAGAGCCAGATCAACCTCATTGATAAGAAATGGAAGCCCCTGCAAGGTGTGGGGAACCTGGCAGCAC
CTAATGCTGCCACATCCAGTGTGTGGAAGTTAAGGTGTTGACCACTGTGCCTGAAATGAAACCACAAGGCTTGA
GAATAGAAATTAAAGCAAAAAATAAGTTTCGGCCTGGGTCTCTCTTTGATGAAGTAAGAAAGACAGCAGCTTAA
ACCGTAGACCAAGAAATCAGGAGAGTTCAAGTGATGAGCAGACGCCTAGTCGGGATGATGATAGCCAGTCCAGGA
GTCCAAGTAGATCTCGAAGTAAATCTGAAACCAAAATCAAGACACAGAACAAGGTCTGTCTCTATAGTCACTCAA
GAAGTCGATCGAGAAGTTCCACATCATCTTATCGATCAAGAAGCTACTCTAGAAGTCGGAGCAGAGGATGGTACA
GCAGAGGCCGAACCAGAAGCCGGAGCAGTTCCTACCGGAGTTACAAAAGTCACAGGACGTCCAGCAGGAGCAGAT
CCAGGAGCAGCTCATATGATCCCCACAGTCGATCCAGGTCTACACCTACGATAGCTACTATAGCAGGAGTCGGA
GTCGAAGTAGAAGCCAGAGAAGTGACAGTTACCACCGAGGCAGAAGTTATAATCGGCGGTCCAGGAGTTGTAGAT
CTTATGGCTCTGACAGTGAAAGTGACCGAAGTTACTCTCATCCCGAGGCCCCAGTGAGAGCAGCAGATACAGTT
GAAAACGTCCGGATACAAATTATATCTTATTTGTAATATCTGGCAACTTAGCTTAAGAAATGTAATGACAGTCT
GTTGTTCTATTTCATATCAGAGGTGAATTTCAAAAATAGACACTTCTTAATTGTTACTGGTTCATTTACATGTG
GGGAGAAGAATTTAAATACAGATATGTCTCTTAAATATTTTTATGCCACATTTTACAGTAGCCAATATGGA
AATGAATTTTCAATTTCTTGAATCAAGAAATCGTGAATTTATCTATGTATAATTTGCAATATTATTTAAGTCTA
TTTCACTCTATCTTACGTATCCCTTAGAATACAGATTCTTTTGCCTGTTTTTCCAGTTTTAGCATATATGCTGC
CAAGCATAGAAGTGTGAAGGAGAAGTGTAAAGGCGGCCAAATATTTATATACTGATTACATAGAGTCTTGTACA
TATGTGCTCTAAAAACAAACCACCCAGAATTGATACTGTGGTAACCAGGAGTATAAGGCAGTGGCTCTGGGGTT
CTTAATTCATTCTAACTTCTTTGATACTTCACAGGATTAGGAAAGTGGTCATCATACATCCACACAGTCTGTA
TTACTTCAGGCTTGTGGCAAGGTTAGGAAGAATCAATCAGCCTTAACATAAAATACCTGCACTGTCTCTGAGGA
CTTACTATTTTATGTTCTTTTTAATCAATACCGATCAGAAGTTTAGGTTATAAAAACAATTCTACTTCATGCTTT
GGTGCTTGGTAATTTTGGTGCTCTTTAAGCATTACTCTTATATATCATATATTAATAACCATAAAAATGAAA
TTCAGACAAAATCACTGGCACAAAATGGTTTATTCTGAGCTGTCTTCACTTTGACTATTTGGGGGGCTTCTCT
CAAGTACAGATGTGGGTTGGGGTCCCCTGGAGCAGGCAGGATTGGCAGTAAGAGATATTGGCCACTCAAGTCTAC
TGTGTGTGTGCTCTGGAAGAGTGAAGAATGGACTTCAAAAGTAACATCAAAAATCTAACTGCCACCATCCTG
GAGACATTTTGCAGGGCTTTCCTTTCAAGTCTTTCAAGTACAGGATATTACCACAACAGCAGCTGAACTGTTGTA
ACCAGCATGTTTTTCTATTTCCACTGTGACCTGCAGCTGACTCAAAGCCTTGGCTGACCTGACCCAGGTGCAAG
AGACAGGGGAAGAGGGATAGAGGGTATAGCATAAATTACATATTTTCATGGCTTTGGGTGGTTCTCTCCAAAAATA
ATTGGACCTGTAAAACTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTTTTTTTTTTAATCTTTAC
TTTGAATTTGTTCCCAAGTGTACTTAATCACCTTAGTGCCAGTTTAAATCCAGTTATGCAGAGAAATTCATATT
GGTTGCCCTGATGTAGAGCTCAGCACCACCCTACCACAGGCCTTGTCTGGTGTATTTGGGAAGTGGAAAAGAGCCC
TCAGTTGGAGGGAGCTGACAACCCTTGGTGGAGGGAGGGTGCCCTTGAATGTATTAAACTATCACCCAAAGAAG
GTATGAAAACAGGGTAAGGTGGTCAGTTGTTGCCAGGTCAATAGACAGAAAGTACATTAGAAAACAGGACTTAG
GCCAAACAAACAATACTGGATACTGAATACAAAACAGTATGATTATATTAAAGGTTTCCAAAGGTTGCCTGCAA
AGGAGAATATTACTACTAGTCAGCAGGAAAAAATGCATTGAGAACCCAAGCAGAAACTGCCAAATGTAATTAGG
TTAAGAAAAGTTACCCTTGGGCAGTGTATTAGTTTTCTATTGCTGTGTGACAAATTACCCCAATTTAGCAGTTT
AAAAAACAATACCCATAGCAGTTCTGTAGCTCATGAGTCTGGCACAGTGTGGCTGGATTCTCTGCTCAGGGTCTT
AAAGGCTGAAATAAGGGTTGGCAGGACAACATTCCTTCATGGAGGCTCTGGGGAAGAATCTGCTTCTAAGTTCAI
TCAGGTTGTTGGCGGAATTCAGTTCTTTGCTGGCTCTCAGCTGGAGGCCCTCTCTCACCTCAAGGCTGCCTGCA
TTCCTTCTTATGTGGTCCCCTCCAGCTTCAAACAGCCTTCTCTGCTCTTTCTCATGCTTCATATCTCTCTCCCGT
CCTCTGTTTTAGGGGCATATGATTAGCTCAAGCCACAGATATATTTAAGGTTGATTGTGCGATAGAACATAA
TTGCAGGAGTACTGTCTCATCTCATATATTACGGGTTCTGGAGATTAGCTCAATTGAAAGTGGGAGGGGCATTT
TCAAATTCGCCTACCACAGGCAATAACTGCCCATCTCAGCTGTAGGTGGAATTTTACCAGAAAAGATAGGCC
CTAGAAGCCTCATTCTTTTCTCCATGGAAAAGGACAGCCCTCTGCTGCAGCGTTCAACTTGTGTGTTTACTGAC
AGAGTGAAGTACAGAAATAGCTTTTCTTCTAAAGGGGATTGTTCTACATTTTGAAGTTATTTTTAATAAAAT
GAATTATGTTGT

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FIGURE 1118

MGAQDRPQCHFDIEINREPVGRIMFQLFSDICPKTKCNFLCLCSGEKGLGKTTGKKLCYKGSTFHRVVKNFMIQG
GDFSEGNGKGGESIYGGYFKDENFILKHDRAFLLSMANRGKHTNGSQFFITTKPAPHLDGHVHVFGLVISGFVI
EQIENLKTDAAASRPYADVVIDCGVLATKSIKDVFEKKRKKPTHSEGS DSSSNSSSSSESSSESELEHERSRRRK
HKRRPKVKRSKKRRKEASSSEEPNKHAMNPKGHSERSDNEKRSVDSSAKREKPVVRPEEIPVVPENRFLLRD
MPVVTAEPEPKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDDSETPPHWKEEMQRLRAY
RPPSGEKWSKGDKLSDPCSSRWDERSLQSRRSWSYNGYYSDLSTARHSGHHKKRRKEKKVKHKKKGKKQKHCRR
HKQTKKRRILIPSDIESSKSSTRMKSSCDRERSRSSSLSHHSSKRDWSKSDKDQVSSLTHSSRDSYRSKSHS
QSYRGSSRSRTASKSSSHSRSRSKSRSSSKSGHRKRASKSPRKTASQLSENKPKVTEPLRATMAQNENVVVQPV
VAENIPVIPLSDSPPPSRWKPGQKPKWPSYERIQEMKAKTTHLLPIQSTYSLANIKETGSSSSYHKREKNSESDQ
STYSKYSDRSSESSPRSRSRSSRSRSYSRSYTRSRSLASSHSRSPSSRSHSRNKYS DHSQC SRSSSYTSISSD
DGRRAKRRRLRSSGKKNVSHKKHSSSEKTLH SKYVKGRDRSSCVRKYSESRSSLDYSSDSEQSSVQATQSAQEK
EKQGMERTHNKQEKNRGEEKSKS ERECPHKKRTLKENLS DHLRNGSKPKRKNYAGSKWDSESNSE RDVTKNK
NDSHPSSDKEEGEATS DSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSSKQRTSTSDSEGSCSNSENNRGKPK
KHKHGSKENL KREHTKKVKEKLKGKKDKKHKAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSDLQFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPLGNARLDTPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVGKQDSSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQGLRIEIKSKNKVRPG
SLFDEVKRTARLNRRPRNQESSSDEQTPSRDDDSQSRSPSRSRSKSETKSRHRTRSVSYSHSRSRSRSSSTSSYRS
RSYSRSRSGWYSRGRTRSRSSSYRSYKSHRTSSRSR SRSSSYDPHSRSRSYTYDSYYSRSRSR SRQRSDSYHR
GRSYNRRSRSCRSYGSDSESDRSYSHHRSPSESSYS

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FIGURE 1119

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCGAAACACCGTGGTACTGTTTCGTGCCGAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTGCAAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGCAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAGGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTTGATCGAGTCAAG
ATGAGTTAGTGGAGCTGGGCTTGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTTATTTTTTTATTTGAACCTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1120

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFVPQQEAWVVERMGRFHRILEPGLNILIPVLDRIY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRRER
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQQAQ
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSASFSLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 1121

TGTATTCAATGCACTGGATTGATGGAAAAATAAGACATTCTTGGAAAACTCAAGTTTGGTATAGGAGATGGCAA
TTTGCAGTATTACCTGTACAATTGGAGGTGTCCAGGTACAGATTCTGAAAAGGGCTCTGGTAACTTCGTTAACGC
CAATGGCAAGCTGCTTCCTGACGTGTGCAGGCGTCCACCCTGACACTTGCTGCTTAGCATCTGTTTTCTTCTCCT
TCAGATTCTCACTAATATCAACAGCAATGCTGCATTTCTCTCTGCTTTCTTTTTTCAGAAAAGGTGTTTTGTTCT
TTTTCTTCTTATCTTCAATCTTCTGAAGTCCAATAGCTTTAAGCCTGTCCTCAAGCGTCTGTAGGATGAAGTGCA
TATCCTCGCTCTCCAGAGCGCTCCAGCGGATGATGTATGGGTTGTTCAACGACGTCTCCACAACCAGAGGTCTCG
TCTTACGAGAGATCCCCGCCCCGGTGCTTGAGGAGCTGCAGCCATTTTGAAAATCCTTCCAAGAAGCAAAATGA
CAACAGAAAAAATTCATGTTAGCGACAACCTGCATGACTTAAGAATATCTTGACTGTACTCTCTGATTCTTATTTA
TTTATGTATTTATTTTTTGAGACAGAATTTCACTCTTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCAGCTC
ACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCC
GCCACCAAGCCCAGCTAATGTTTCTATTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTC
AACTCCTGACCTCAGGTGATCCACCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCC
CGGCTGTACTCTGATTCTGGATAAGCTAGAGCAAGCCTGATTATATAAGTCCAATTAGGTGAGCATACGCTTGT
CTTCCTTTTAAAGATTAAAGTAATTTTATTTTTCCCCATTTTTCTTACCCGATTTTGAATGCTCTACGAAGGCTCT
TTAAAATACTCAGGACTATGGGTGAGTAGTGTAAATTTTCCCCATTTTTTATATGACTTTGTCTTTATTCTTA
TACAAGCAATATGTGAAAGTTTTAATTATTGCAATCATAGTACAATTCCATTTGTCTATTTTATTATAAAAAT
ATTCTGTTTCTACTTGTTTCATAATTAAAAA

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FIGURE 1122A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCTCCCCTGGACCCGCCGAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTACCCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAAACTTTGA
GGACAGGAATGCATTGTTCACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCAAGCT
CATGAAGTTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCCTACCTCCTGACCTTGGCAAGTTCATCAACATGTTTGCTGTCTGGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACCTCTGCCTACAAGAGGGCAGCACAGTTTCTGCGGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATGTTTCTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCAGTGAGAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAATGTCTAGTAACATTTCACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAGTCCAAGTGGAGCTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTTCAGATCCGGGATGACCACATCCGCTTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCTTGGAAGCTGGTTCATCCACAGACAAGTT
CTGCAACAAGGACTGTCTTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACAGTGAGGAAAA
ATTTGCCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCCTCTACGCGGCATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCTGCGGCA
GGCGGTACGGAAGAAGAAGATGTCTCATCAGCGTCTACAGGCAATTCGAAAGACCCTGTGTACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGTGTGGGGCCATCCAGCACACAGCTGTACATGGTGGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTCAACAACA
GTCTTCTTCTTACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGAGTTAACCATGGGCCGACGAATCCAGTTCCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTTGAAACCAAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTTCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTT
GGATAACGTTTTTCGAGCTGAGTGAAGAATTATGGCGTCATCATTCCGTATCCACGTCCTAATCGTATGAAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAAGTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTCTGGGGCCACCTCATTCAAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTCATGGAGGAAGTCTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCTCTTCTGCTCTCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTGCT
CCATGCCGCACCCTTCCAAAACATCTTGCTTAGAGTCTACATCAAAGAGGGGGAGCGCTGGAGGTCCGGATGAA
ACGCTTGGAAGCCAAGTATGCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAAATCGC
CATTGCTCGGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCTGTCCATGTTCCAGGTCATCTGAC
CCGCAATCGGAGCTACCTGCAGGACCCATCTGGCGGGGGCCACCGCCACCAATGGCGTCATGCACGTGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTACTGCATCCCTGTGGGAACCAACGAGTTCAC
AGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGTGCTTCCATCATGTTCTGCTGGGCCAGCAGCGTCCG

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FIGURE 1122B

CTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGCCACCACCTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1123

APARGPAVASGPSGPAAEPVQNTETAAMTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSCSRRAIPQVKCNEQPNRVEIYEKTVLEVLEPEVTKL
MKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKF INMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNYKLDACKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKTILRSSLDGPIVLAIEDFHKQSFFFTHLNISEALQQCCDLSQLWFFREFFLELTMGRRIOFP IEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALT KFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVII PYPPSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKS LDQAISRFESDLTSIVEL
EWLLEINRLTHRL LCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGPPHFKTICRLLGYQGIAVVMEE LLKIVKSLLQG TILQY
VKTILIEVMPKICRLPRHEYGSPGILEFFHHQLKDII EYAE LKTDVFQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDP IWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWVGCSII VLLGQQRR
FDLDFCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPP IHQ
SLATTC

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FIGURE 1124

GCTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAGCGGCACCCGCGCTCCTGCAC
CAGGGACTGTGCCGAGCCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCCCCTGGAGGAGCTGGATCACCTCCT
GCTGCTGGCGCTGATGACCGTGCTCTTCACTATGTGTTCTCTGCCCCTAATTTATCGCGCTTACTATGGAGCATT
TAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAGAAGACCTCCGAGCCTTGCGATTTCTATCTGIGAT
TTCAATTGIGGACCCTTGGATTTTTATCATTTCAGATCTCCAGTATTTCCGATATTTTTTACAAGATTTTCAT
TAGACCTCTTAGGTACAGGAGCCGGTGCAGCAATCCACTAACATGGAATCCAGTCTGTGACAGTGTTTTTCACT
CTGTGGTAAGCTGAGGAATATGTCACATTTTCAGTCAAAGAACCA

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FIGURE 1125

LCNLGAMRNLYAMHRRQLQRHPRSCTRDCAEPRADGREASPOPLEELDHLLLLALMTVLFTMCSLPVIYRAYYGAF
KDVKEKNRTSEEAEDLRALRFLSVISIVDPWIFIIFRSPVFRIFFKIFIRPLRYRSRCSNSTNMESL

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FIGURE 1126

CTTATTTTCAACTCCCGAGTGGCTAGACAGGAAAAAGAAAGAAATGATGTGAGGAAAGTTGGGAAGCTCTGCACA
GTGATCCCTGAGAGCCCTGGCACCACCTTTAGGAGACGTGGTAGGTCACTCTGTACATGTTCTTCTCAGCAAGGG
GGGTTTTCCCAAAGGGACACAAGAAGAAATCTTACTCAGTGGAGTAAATGGAAAGAAGAGGGAGCATGTCTGTC
TGGTTCTTCTTATTTCTCTTTCTCAGAGTCAAGTTTACCCACAGGGAGTTCACGCTTCCATGTTGCCTCA
TCCAGCCCTTCAAGGAAGCCAGAGTCTGTGCTCCAGTGTGGCATTTCAGCCAACCTAGAAATGAAGGGTGACTTAG
CACAGAGAGGTTCAACAAGTGGGGCATGCAGGCCACTGATCTCTGCAAGGGCAGCAGTGCCGGGGTGCTCTGGGA
TACAGGCAGTGCCTTCGGAAAGAAGGGCAATTGAAGACAGTTGAGAAGGTGAACAAAGTTTACATCTAACAAATT
TTAAAGTTTTATTATTTTTATTTTTATATTCTTGGGGTCTCACTATTTTGCCAGGCTGGAGTGACAGCAGCTATT
TGCAGGCTGAATCCCACTACTGATCAGTACTGGAGTTTTATTTTATTTAATTAACCTATTTATTTTGAGACAGAG
TCTTGCTCTATTGCTCAGGCTGGAGTGAGTGTGCGATCTCGGCTCACTGCAGTCTCGACCTCCAGGCTCAAT
CGATCCTGCCACCTCAGCCTCTGGAGTAGCTGGGACTACCTGTAGGTGCGTGCCACCACGCCCAGGTAATCTTTT
ATTTTTTTGTAGATACCAGTTATCCTATGTTGCCAGGCTGGTCTCCAACCTCTGGGCTCAAGCAATCCTCCCACC
TCAGCCTCCCTAAGTGCTGAGATTACAGGTGTGAGTCACTGTGCCAGCCAACCTGGACTATTCTAAATTTTAAC
AGTGCTTAAGAGAATCATGCTTAATTAATAAACTAGCTGGACGTGGTGGCTTACGCCTGTAATCCAGCACTTTGG
GAGGCCGAGATGGGCGGATCCCTTGATTCCAGGAGTTCGAGTCCAACCTGGGCAGCACGAAGAAACCTCATCTC
TACCAAAAAATACAAAAATTAGCCAGGCATTGTGGTGTATACCTGTAGTCCCAGCTGCTTGGGAGGATGAGGCAGG
AGGATTGCTGGAGCCTGGGAGGTGGAGGTTGCAAAAAATAATGACTTTTAGTGTTACTGCAGATGCAACGCATG
TTCAGTGTAGACCAATTTAAACTATAGATAAACCAAAACAACAACTTTTCTTTTTTTAAGAGACGGAGTCT
CGCTCTGTGCCCAGGCTGGAGTGAGTGGTGCAATCTCGGCTCGCTGCAACCTCAGCCTCCAGGTTCTAGCAA
CTCCTGCTCAGCCTCTTGAGTAGCTGGGACTACAGGCGCACACCACACCCATCTAATTTTTTGTATTTTAG
TAGAGACGGGGTTTACCTTGTTATCCACTGTGGTCTCAAACCTCTGAGCTCAGACAATCCGCCCCGCTCGCCTC
CCAAAGCGCTGGGATTACAGGGGTGAGCCACCACACCCGGCCAAGAACTTTAAATACTACCTAGAGACAATCCC
TTTTAAACTTTTAGTGATGTCTTTTTATACCATTTCTAGGCTTCTAGGCTCATTGCAAAAATGAGATACCAC
TGTAATACTTAATCTGTAAATTATCTTTTTCAGGAGTCTCTCTGAGTCTCTGGCTCAGGGAGCTGTCTATAA
CATAAATAAGTAAATTTTTTTTTTACAATGGTTGTTGAAGATACTAATAAATATTAGGGCTGGGCACAGTGGTT
ATAGCTGTAATCCCACCACTTCGGGAGGTCAAGGTGGGAGGATTGCTTTAGCCCAGGAGTTTGAGACCAGCCTGG
GGAACATAATGAGACCCATCTGTAAAAAAGAAAATTAAATTCACCTTTAGTATTATCTTATTAATAATCCATTG
TGCATTTACACAATCATTTACCTTATCAGTCCCTTCAGAAGAACATTTAAGTTGTTATCACTTACATCCTTGACG
CTAAATCTTTGAGTACATCCTAATACCTGTCTGTTTTTAATGACCTATCTAAGGAATCCTTTGAAACCTATACAC
TTAACCAGTGTGTTAGCTAAGAGCCTCCAAAAAGGCTGGGTGTGGCGGCTCATGCCTGTAATCCCAGCACTTTGG
GAGTCCGAGGCGAGTGAATCACTTGAGGTCAGGAGTTCGAGACCAGCCGGGCCAACATGGTGAAACCCCGTCTCT
ACAAAAATGCAAAATTAGTTGGGCATGGTGGCTCACTCCTGTAGTCTGGCTACTCAGGAGGATAAGTGGAAAG
GATGGCTTAAGCTCAGGAGGTAGAGATTGCAATGAGCCGAGATTGTGCCACTGCACTACAACCTGGGCAACAGAG
CCAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1127

CTTGTCCTCCCCTGGTTTGTGAAGTGCAGGAAAACAGAGGCGCAGTCAATGTCGGGATTTCGACGATCCTGGCATT
CTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGGCAGGCCCCGCAAATCGCAGCTGCAGAGGCGCTT
CAAGGAGTTCTGCGGCAGTACCGAGTGGGCACCGACCGCAGGGCTTCACCTTCAAATACAGGGATGAACCTAA
GCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC
CGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGT
GACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGACATCCAGGTCTGCTCAAGTCGGACGCCAGCCCTTC
CAGCATTCGTAGCCTGAAGTCGGACATGATGTCACACCTGGTGAAGATCCCTGGCATCATCATCGCGCCTCTGC
GGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGGCGCAGCTGCCGCAACACCCTCACCAACATTGCCATGGC
CCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAACACAGATCAGGCTGGGCGCCCCAAATGCCCCATTGGA
CCCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGACTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGC
AGTCCCCCAGGGGAGATGCCAGACACATGCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTGCTCCCTGG
GAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAAGTTTGGCCTGACCACCAGCAGGGGCGGTGACAGGGT
GGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGGATCCAGGTGGACACAGATGGCTCTGGCCGCGAGCTT
TGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGTTCGGTCCGCTGGCTGCCCTCCCAAATGTCTATGAGGTGAT
CTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGACAGACATGAAGAAGGCCATTGCTGCTGCTCTTTGGGGG
CTCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCTGGGAC
AGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTCTCCCATTTGGGGTATACACGCTGAGGAAAGGCAGCAG
CGCAGCTGGACTGACAGCTCGGTGATGAGGAGCCCTTCGTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGT
CCTGGCCGATGGTGGGGTCTGCTGATTGACGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGA
AGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGGGATCACCACCACCCTGAACTCCCGCTGCTCCGTCTT
GGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGACGAAGGGGGAGGACAACATTGACTTCATGCCCAACAT
CTTGTCGCGCTTCGACATGATCTTCATCGTCAAGGATGAGCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCA
TGTCATCACTCTGCACGTGAGCGCACTGACACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAA
GAAGTTTATTGCCTACTGCCGAGTGAAATGTGGCCCCGGCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACCG
CTACATCATCATGCGGAGCGGGGCCGTCAGCACGAGAGGGACAGTGACCGCGCTCCAGCATCCCCATCACTGT
GCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGC
AGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCACGTTGGATGCTGCCTTGTCGGGTACCCTGTGAGGGGT
GGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAGCCGATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT
TGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTTCACCAAGCAGAAATACCCGGAGCACGCCATCCACAA
GGTGCTGCAGCTCATGCTGCGGCGGGCGAGATCCAGCATCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTG
AGTCGCGCCGCTCACTGGACTCATGGACTCGCCCCAGCCTCGCCCCCTCTGCGCTGCTGCCATTGACAATGT
TGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTTCCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGC
TGTAGTGTCTGCTGCCTCTGGGCGCCGCTCTAGCGCGGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAA
TAAAGCCACGGTGTGTTACAGGTAAAAA

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FIGURE 1128

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDAPVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIO
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIGEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMETILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHVKVLQLMLRRGEIQHRMQRKVLYRLK

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FIGURE 1129

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTATCGAGGCTGAACCTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCCTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTTCTTGGCCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGGACAGATCTTCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAACGTGTGGGTCAATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGACATGGGCCACTCTAGGACAGGTATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTTCCACCTGTCCCAGGACCAGAATCCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 1130

MADGQVAELLRRLEASDGGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSFSTSIKQETELSPEMISSGSRDRPFKPNFLAHGVLPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPIDNFI ESSFWNFDALFQPQQHPARDQHDFTFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLEFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 1131

GAATTCGGGCGTGGGCGCGGGGGCGCGCGTGCGGCACGCTGCAGGGCTGAAGCGGCGGCGGCGGTGGGGACTGC
ACGTAGCCCGGCGCTCGGCATGGCTCTCCTGGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAATGG
TCTGTATTCTCTAGTGATGATGTGATCGAATTAACCTCCATCAAATTTCAACCGAGAAGTTATTCAGAGTGATAG
TTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAATGGAAGAAAGCAGC
AACTGCATTAAAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGG
TGTTCAGGGATTTCCTACCATTAAAGATTTTTGGATCCAACAAAAACAGACCAGAAGATTACCAAGGTGGCAGAAC
TGGTGAAGCCATTGTAGATGCTGCGCTGAGTGCTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGGACGGAGCGG
AGGATACAGTTCTGGAAAAACAAGGCAGAAGTGATAGTTCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACAG
CTTTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCTCCTTGGTGTGGACACTGCAA
AAACCTAGAGCCAGAGTGGGCTGCCGCGCTTCAGAAAGTAAAAAGAGCAGACGAAAGGAAAAAGTAAAAGTGGCAGC
TGTGGATGCTACAGTCAATCAGGTTCTGGCCTCCCGATACGGGATTAGAGGATTTCTTACAATCAAGATATTTCA
GAAAGCGAGTCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGATTTGTT
TTCTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCA
CCAGCTCTGTGTTGTGGCTGTGCTGCCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATTCCTATCTGGAAGT
TCTTCTGAAGTTGGCAGACAAATACAAAAAGAAAATGTGGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTCTGA
ACTTGAGACCGCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATGAAATT
TGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAGCTCTCTTTTGGGCGTGGCTC
CACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTTGAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCT
TCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTTGATGACTTAGGGAAAGATGAGTTGTGAGAGCCACA
ACAGAGGCTTCAGACCATTTCTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACTTT
CTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACACTCAGATGACTCTACCAGTGGCC
TTTTAACCAAGAAGTAGTACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACTTTTCATCTCAAGAAAACA
TTGAAAAATTCTATGAATTGTTGTAGCCGGTGAATTGAGTCGATTCTGTACATAATATTTGAAGAAAAGTTG
GCTGTGCAAAACATTTTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTTTCTTATGTATGGGTTTTTTTT
AATGTGATCCCTTCATTGAAATATTAATGGCTTTTCCATTAAAGAATAAATTGGAAAAAGAAAAAAAAAAAAA
GGAATTC

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FIGURE 1132

MALLVLGLVSCFFLAVNGLYSSDDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDV
VKVGAVDADKHSLGGQYGVQGFPTIKIFGSNKNRPEDYQGGRTGEAIVDAALSALRQLVKDRLGGRSGGYSSGK
QGRSDSSSKKDVIELTDDSFKNVLDSEVVMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGKVKLAAVDATVN
QVLASRYGIRGFPTIKIFQKGESPVVDYDGGRTSRDIVSRALDLFSDNAPPPELLEIINEDIAKRTCEEHQLCVVA
VLPHILDTGAAGRNSYLEVLLKLADKYKKKMWGLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGS
FSEQGINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELPVEDDIDLSDELDDLKDEL

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FIGURE 1133

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGAACCACTC
ATTCACCTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATACCTGAGAT
CTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGAAAACTTCTTGCCAACCAAACCTGGTCAAAATGTCTTTGGAAGTTTCTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGAGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTGTATGAAGCACAAAAAGTCATATATACTC
TTATGGAAAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGTCCTTGACAGGCCAAGAAGAACAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACCTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTGCGGTGATTTTATTTTATTGTTTTGACTTTGGAAGAGATGAACTGTGTA
TTTAACTTAAGCTATTGCTCTTAAAACCAGGGATCAGAATATATTTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAACTTGCATTT
ATTCCTCAGATTTTAAAAATAAATAAATAATTCAATTTAAAAA

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FIGURE 1134

MPGMFFSANPKELKGTTHSLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVLAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSK

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FIGURE 1135

GAATTCGGGCAGGCACAACTCATCCATCCCCAGTTGATTGGAAGAAACAACGATGACTCCTGGGAAGACCTCAT
TGGTGTCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAGGAATCACAATCCCACGAAATCCAGGAT
GCCCAAATTCTGAGGACAAGAAGCTTCCCCGGAGCTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATA
CCAATCCCAAAAGGTCCTCAGATTACTACAACCGATCCACCTCACCTTGGAATCTCCACCGCAATGAGGACCTG
AGAGATATCCCTCTGTGATCTGGGAGGCAAAGTGCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACT
ACCACATGAACCTCTGTCCCATCCAGCAAGAGATCCTGGTCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCT
TCCGGCTGGAGAAGATACTGGTGTCCGTGGGCTGCACCTGTGTACCCCGATTGTCCACCATGTGGCCTAAGAGC
TCTGGGGAGCCCCACACTCCCCAAAGCAGTTAGACTATGGAGAGCCGACCCAGCCCTCAGGAACCTCATCCTTC
AAAGACAGCCTCATTTTCGACTAAACTCATTAGAGTTCTTAAGGCAGTTTGTCCAATTAAAGCTTCAGAGGTAAC
ATTGGCCAAGATATGAGATCTGAATTACCTTTCCCTCTTTCCAAGAAGGAAGGTTTGACTGAGTACCAATTTGC
TTCTTGTTTACTTTTTTAAGGGCTTTAAGTTATTTATGTATTTAATATGCCCTGAGATAACTTTGGGGTATAAGA
TTCCATTTTAAATGAATTACCTACTTTATTTTGTCTTTTTAAAGAAGATAAGATTCTGGGCTTGGGAATTTT
ATTATTTAAAGGTAAACCTGTATTTATTTGAGCTATTTAAGGATCTATTTATGTTTAAAGTATTTAGAAAAAGG
TGAAAAAGCACTATTATCAGTTCTGCCTAGGTAAATGTAAGATAGAATTAAATGGCAGTGCAAAATTTCTGAGTC
TTTACAACATACGGATATAGTATTTCCCTCCTTTGTTTTTTAAAGTTATAACATGGCTGAAAAGAAAGATTAAA
CCTACTTTTCATATGTATTTAAATTTAAATTTTGCAATTTGTTGAGGTTTTACAAGAGATACAGCAAGTCTAACTCTC
TGTTCCATTAAACCCTTATAATAAAATCCTTCTGTAATAATAAAGTTTCAAAGAAAATGTTTATTTGTTCTCAT
TAAATGTATTTTAGCAAACCTCAGCTCTTCCCTATTGGGAAGAGTTATGCAAATTTCTCCTATAAGCAAAACAAAGC
ATGTCTTTGAGTAACAATGACCTGGAAATACCCAAAATTCCAAGTTCTCGATTTTCACATGCCTTCAAGACTGAAC
ACCGACTAAGGTTTTTCACTATTAGCCAATGCTGTAGACAGAAGCATTTTGATAGGAATAGAGCAAAATAAGATA
ATGGCCCTGAGGAATGGCATGTCTATTATAAGATCATATGGGGAAAATGAAACCTCCCCAAAATACAAGAAGT
TCTGGGAGGAGACATTGTCTTCAGACTACAATGTCCAGTTTCTCCCTAGACTCAGGCTTCTTTGGAGATTAAG
GCCCCCTCAGAGATCAACAGACCAACATTTTCTTCTCCTCAAGCAACACTCCTAGGGCCTGGCTTCTGTCTGATC
AAGGCACCACACAACCCAGAAAGGAGCTGATGGGGCAGAATGAACTTTAAGTATGAGAAAAGTTAGCCCAAGTA
AAATAAAACTCAATCACATTCAATTCCAGAGTAGTTTCAAGTTTCACATCGTAACCATTTTCGCCCGGAATTC

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FIGURE 1136

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPWN
LHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTP I
VHHVA

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FIGURE 1137A

GGCACGAGGCACGTGGGTTCTGAGCGTGTCTTCTACGTCCCTGGAAGCCGGTCATTTAAGCTCATTCTCGCCACG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTGAG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCTTGGCGTTGGGCAAAA
GCGAAGCCCCGAGACGCCCATGGAAGAAGAGGCGGAGCTGGTTCTCACCAGAAAGTCTCGGGTACCTTCTCTGA
GTGGCCTTTCCGACTGCACAAACGTACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCACAA
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTGCTCCAGGGAGGGAAGGAGACGGAGACTGAGT
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA
ACCTTGCTCTGAAGCGTGTTCAGCCCTGTGCTTATTAAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA
TCATGTGCTGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTCTGCTGCTGGCCACCCTTCTGC
GGAAGCAAGACCTGGAGGCCTGGGGCTACCCCGTGACCCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
ATCCCAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCTCAAGGGCAGTGAATTCATGTTTG
AAAAGGCCCTTGCCCATCATCTGCTGCCATTTCCACTGCCAAGTTCTGCATCCAGGAGATTGAGAAGTCTGGAG
GCTCCAAGGAGGCCACCACCACGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTTACAGCCTCTTCCAGCCAGGCCTGGCCTGAGCACCCTGTGACAGAGCTCAACGCCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTTACAACCCCTGCTAGCCTGGCTTAAGGTATGGAGAAAG
CCCATCAACCTGGTGAGGTTGCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA
CCTGCTCTCTTTCCCACTCGCAAGTGCTGACTGCTGCTACGCAGAGCCTCAAGGAGATCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGGCCTCAGGCCCTGCCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGGAGGAGGGCCTGACGTACAAATTCATGCGCCTGGAGCTCCGTGTTGCAGCTGCTGTGTGTCT
TCTTCGAGGCGTGTGGGAGACAGGCCACCCTGTGATGAGGAAGTGCCCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCCCTCATTTCCCCACACGGCGGCTCTTGACCAGGCAGTGGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGCAGGCTGTGCCCTTTGGAATTTGATGGCTCTGAGGAGACTCTGGATTTCACCGAGCTGGCTGCTGCCCTG
TCATCCGAGACCATGTTAGGAACGCGACTTGGTTTTTTTACCACCTACTTCTTGCCCTGGCTAACACCCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCTCATCACCAGG
GCTGCCAGGCAGAGGCTGACCGTGTGAAGTGAGTCGCTTTGCCAAGAACTTCTGCCGATCTCTTCAACCTGT
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCTCGCCGGGCTGTGCTGGAACCATCAGAAGTTACCTCA
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGAAGAAAGCCAGTGAGAAGGTGCTCGACCTGCCAGCTCTG
ACTTTACCAGATTGTCTGCTGCTGACCTGGTCTGCTGGCCTTGGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGAGAAGAAGGCCTACCGAGTGTGGAGG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGACAGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCACCTCCTACCCGCCAAGAGGCCCGTTTGAAGTGCCCTCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTCATCACTGCCCTCATCCAGAGGTGATCCTGTGCACCAAGGAGGTGTCGGTGG
GCGCACGGAAGAAGCCTTTTGCAGTCTGCTGGAGATGGGCCATGCTTTCTAAGGTTTGGCTCGAACCAGGAAG
AGGCCCTGCAGTGTACCTCGTCTGATCTACCTGGCCTGGTGGGCGCGGTGACCATGGTACGTGCAGCATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACAGTACAGTGGAGCAGCTGCTGGAGAATG
TGTGCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGAAGT
TCATGGACGTGGCGCACCTGGCCAAACATGTGACGTGGTGTGGAAGCCATTGGGAAGCTTTAGATGACATGC
GGCGGCATTCGCGATGAAGCTTCGGAACCTGTTACCAAGTTCATCCGCAAGTTTGGATTGAGCTGGTGAAGA
GGCTGTTGCCGAGGAGTACCACAGAGTCTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCACCGAG
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAGGTGACA
GCATTGAGGAGATTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCAGCAGAGGAGCCGGGATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCCTGG
ATCCCAAGGTGGCCCAACGAGTCTGGCCACGCAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 1137B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCCGGCGAGGTTCCAGGTGGGACACAAAAACCGCAGAAAGGATCGTCGAC
CCTGAGGCCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTAGGGCTTGGCTCTCAGAAGTC
CTGGATTTTGGAACTCCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1138

MGRSGKLP SGVSAKLKRWKKGHSSDSNPAICRHRQAARSRFFSRPSGRSDLTVDAVKLHNELQSGSLRLGKSEAP
ETPMEEEAE LVLTEKSSGTFLSGLSDCTNVTF SKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETEFYFAA
LMTTMEAVESPE SLAAVAYLLNLVLKRVPSVLIK KFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPVTLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTTLHMLTLLKDLLPCFP EGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSTLSAELNAQII ITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPVMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKSKA
MDLAQAGSTVESKIYDTLQWQMWILLPGFCTRPTDVAISFKGLARTLGMAISERPDLRVTVCQALRTLITKGCQA
EADRAEVS RFAKNFLPILFNLYGQPVAAAGDTPAPRRAVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEVCASPQGPALFVQSHLEDLKKTLTLLDSL
RSTSSPAKRPRLLKLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRFGSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTD VVKSALGFIKVAVTVM DV
AHLAKHVQLVMEAIGKLSDDMRHFRMKLRNLFTKFI RKFGFELVKRLLPEEYHRVLVNIRKAEARAKRHRALSQ
AAVEEEEEEEEEEP AQKGDSIEEILADSEDEEDNEEEERSRGKEQRKLARQRSRAWLKEGGGDEPLNFD PKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLI IREEADGNKMEEEEGAKGEDEEMADPMEDV IIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPDYAYIPLNRSKLNRRKKMKLQGGQFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 1139

GATAAACAACTTGATGCAGATGTTTCCCCAAGCCCACTATTTTTCTTCCTTCGATTGCTGAAACAAAACCTCCAG
AAGGCTGGAACATACCTTTGTCTTCTTGAGAAATTTTCCCAGATATTATTAAGATACATTGGCAAGAAAAGAAG
AGCAACACGATTCTGGGATCCCAAAGACAATTGGTCAAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAA
CACCTCTGCATATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCT
GCTTGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCT
CATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTCAGTT
CTCATGTGTGTACTAATTCTATCTATTGTATAATGGTTTTCAAACCAAGTGGGCACACAGAGAACCCTCACTCTGTAA
TAACAATGAGGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCA
AATAGCGCCTGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCCTCTCTTAGTGTTCTTTAATCAGATAA
CTGCCTGGAAGCCTTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTCC
GTAATAAGCAAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 1140

CAAGGCTGAACGTCCAGGTCACCTCCACGCCCGTGATCGTGATGCGCGGGGCTGCTGGCCTGCAGCGGGAGATCC
AGGAGGGTGCCTACTCCGGGAGCTGCTACCATCGAGATGGCTTACGGCTGAGTATACAGTTTGAGGTGAGGCGGG
TGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGTGAAAGACCTCCTCCACAGCCAACGCGACTCAG
CCGCCAGGACCCGCTGTTCTTGCCAGCCTGCCCGGCTCCACCCACTCTACCGCTGCTGAGCTCACC GGACCCA
GCCTGGTGGAAGTGC TCAGAGCCAGACCCTGGTTTGAGGAGCCCCCAAGGCTGTGGAAGTGGAGGGGTTGGCGG
CCTGTGAGGGCGAGTACTCCCAAAGTACAGTACCATGAGCCCGCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGA
CTGCTGTGGACAAGGAAAAAACAAGGAGGIGGTGGTGAAGTTTATTAAAGAGGAGAAGGTCTTGAGGATTGTT
GGATTGAGGATCCCAAAGTGGGAAAGTTACTTTAGAGATCGCAATTCTATCCAGGGTGGAGCAGCCAAATATCA
TCAAGGTATTGGATATATTTGAAAACCAAGGGTTCTTCCAGCTTGATGAGGAGAAGCACGGCTCCGGCCTAGACC
TCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCTGGCGAGCTACATCTTCGACAAGTGTGTCAG
CAGTGGGATACCTGCGCTTGAAGGACATCATCCACCGTGACTTCAAGGATGAGAACATCGTGATCGCCGAGGACT
TCACAATCAAGCTGATAGACTTTGGCTCGGCCCGCTACTTGGAAAGGGGAAAATTATTTTATACTTTTGTGGGA
CCATCGAGTACTGTGCACCGGAAGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGG
GAGTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATAC
ACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCA
CCACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGG
TGTTTCGAGTAAACAAGCCAGAAAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTG
ATGTGGCCCAGGCTCAGGAGCTTTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATC
CCGGGGATCCCCGCTCTGCTGACCAGCTAAACACCAATTTCTTCCTGCTTTTCTCCACTTGGTTTGGAAAATCACA
CAGTTTTCAGGCTCCATCTGTTTGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAAACTCATGTG
CAGGTTTGATAAACACCAGAACAGAAGACAGTGATGCTGTATTATTTTAGATTTATTACATAGATTGGAATTCA
CTTTTTTCATGACCTAGAAAAAAACATTCCAGTGTTCAACTGTTTTATATTATTAAGGGCTTTTAATTTGTGAA
CTTCTGAAGGCATGAGTGTCTCTCTTCTACTTTTGTATATGTGCATGTTTGTCTCTGACTTGGTATATG
CTCATCTGAGTGACGGATATGTGAAATTTGTAGAACTGGTTAGTCAAATGGCCAGACTATTTCAATTAATTTATTT
CCTCAAATGCTTTTCAAATTAAGCACCTTTGTAGTAAACAGTTAAAAA

A

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FIGURE 1141

GAATTCCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCCTTTGTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTACCAATAATAGTCTCGTGGAAGTGGGTGATCTGG
ACCCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGGTTTGCCAAGTACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTGTAAATATAAGTT
TTGAAATCTAAATGTCAATTTCTACAAATTATAAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 1142

MVKLTAEIEQAAQYTNVARDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNNLSLVELGDLDPLASLKSLTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFOKV
KLKERQEAEMFKGKRGALAKDIARRSKTFNPGAGLPTDKKRGGPSGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDTVTNGS

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FIGURE 1143A

CGGCCCGGCGGTAGGCGGTGGCGACTCTGCCCGCTCCCGTTTCGGCGCGGTGACCGAGCGCCCGGGAGGCTCGAG
GACCGCATCGTGTGCCGTTGCGCCAAGCCCGGTCTGCGCCGCCATGGCCCCAGTGCAGCTGGAGAACCACCAGC
TGGTCCCGCCCGAGGCGGCGGGGCGAGCGGCGGACCCCGTCAGCCCCAGCCCCTCCTCCCCGGGAGCCG
CCGTGGCGGCGGCGCTGCAGCTGCGGCTAGCCCGGCTACCGGCTGAGCACCTCATTGAATTTCTGCTGCACC
GGCCTACTCGGAGCTTATGGTGTGACGGACCTACTGCCAAGGAAATCTGATGTGGAAAGGAAAATAGAAATAG
TGCAGTTTGTAGCCGGACACGCCAACTCTTCGTTGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCA
AAGTGGAAAAATGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCATCCTGTTTGTGGACACTGCTGATCGCC
TGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCTGCTAGTTTTGCCATCCCATATGCCATTGATGTAC
TAATACTGATCTTACCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCCTCCAGACCCAATTACCAAAA
TTGAAAAACAAGCCACACTCCATCAGCTGAATCAGATTCTTAGACATCGGCTTGTAACCACAGATCTTCCTCTC
AGTTAGCAAATCTTACAGTTGCAAATGGCCGGGTGAAGTTTCGTGTTGAAGGAGAATTTGAAGCCACCTTGACTG
TGATGGGAGATGACCTGATGTTCCATGGCGTCTTCTCAAGCTAGAAATTCTAGTTGAGGATAAGGAAACAGGAG
ATGGGCGAGCTTTGGTTCATAGCATGCAAAATCAGCTTCATCCATCAACTGGTGCAGTCTAGGCTCTTTGCTGATG
AGAAACCTCTTCAGGATATGTACAATGCCTACATTCTTTCTGTTTATCACTTCAGTTAGAAGTGTACATTCCC
AAACTCTAATGTTAATCCGAGAACGGTGGGGAGACCTTGTGCAGGTGGAAAGGTATCATGCTGGAAAGTGCCTCT
CCCTTTTCAGTTTGGAAATCAACAGGTTCTTGGGAGAAAACTGGAACAGCATCTGTTACAAAGTTACAATTA
TTGATGAGAATGATGTCTCAAGCCTTTACAGATTTTTTACGATCCTCCTTTGCCAGCTTCTGATTCCAAATTAG
TAGAAAGAGCCATGAAGATCGACCATTATCAATAGAAAACTCCTGATTGACAGTGTCCATGCAAGAGCTCATC
AGAAGCTCCAAGAACTGAAGGCCATTCTTAGAGGCTTCAATGCCAATGAAAACTCTTCATAGAGACTGCACTCC
CAGCTCTTGTGTTCCCATCTTGGAGCCCTGTGGTAATTCAGAGTGTCTGCACATTTTTGTAGATTACATTCTG
GAATGTTTCAATTGATGCTTTATGGACTTGACCAGGCCACTCTGGATGACATGGAGAAGTCTGTGAATGATGATA
TGAAACGAATCATACCTGGATTGAGCAACTTAAGTTTTGGCTTGGACAACAGCGTTGCAAGCAGTCTATAAAC
ATCTGCCTACGATAAGCAGTGAAACATTGCAGCTTTCCAATTACTCAACTCATCCTATTGGAAACCTTTCTAAGA
ATAAATGTTTCATTAAACTTACCCGCCTTCCACAATACTACATTGTTGTGGAGATGTTGGAGGTTCCCAATAAAC
CCACACAATGTCGTACAAGTACTACTTTATGTCTGTGAATGCTGCAGATCGTGAAGACAGCCCTGCAATGGCAT
TGCTGCTGCAGCAGTTCAAGGAAAACATTGAGACTTGGTTTTTTCGTACAAAAACCGGGAAACAGACCAGAACCA
ATGCCAAGCGCAAGTTGTCTGATGATCCATGTCCAGTAGAATCCAAGAAAACAAAACGAGCAGGAGAAATGTGTG
CCTTCAATAAAGTTTTAGCCCACTTCGTGCTATGTGTGATACAAATATGCCATTTGTAGGACTTCGGTTGGAGT
TGTCCAATCTGGAGATTCCACATCAAGGAGTGCAAGTGAAGGTGATGGCTTCAGCCATGCAATTGCTTATTAA
AAATTCCTCCCTGTAAGGGTATAACTGAGGAAACCCAAAAGGCTCTGGACCGCTCTCTTCTTGATTGCACCTTCC
GATTACAAGGTAGAAATAACCGCACTTGGGTAGCAGAGTTAGTGTGCAAAATGTCCACTTAATGGCACTTCTA
CTAGGGAGCAAGGACCATCCCGGCACGTTTACCTGACATATGAAAATCTGTTGTCTGAGCCTGTTGGTGGTAGAA
AGGTGGTTGAAATGTTTCTTAATGACTGGAATAGCATTGCACGATTATATGAGTGTGTTGGAATTTGCACGTT
CTCTACCAGACATACCTGCTCATCTAAATATTTCTCAGAAGTTCGTGTTTATAATTACCGAAAACCTATCTTGT
GTTATGGAACCAACAGGGAAGCTCAATTAGTATCCAATGGAATTCGATCCATCAAAAATTCCACATTTCTTTGG
GAACTGTTGGCCCAAACCTCAGGTTGCAGTAACTGTCACAATACCATTCTCCATCAGCTTCAAGAAATGTTCAACA
AAACACCAAATGTGGTTCAGTTATTACAGGTACTGTTTGATACTCAGGCTCCATTAAATGCCATCAACAACTCC
CCACTGTGCCGATGTTGGGCTTGACCCAGAGAACCAATACTGCCTACCAAGTCTTCTCCATTCTGCCACAGTCGT
CCACCCACATCAGACTGGCCTTCAGGAACATGTATTGCATTGATATATACTGCCGGAGTCGAGGTGTTGTGGCAA
TACGGGATGGTGCTATAGTCTTTTGTGATAACAGCAAACCTAGTTGAAGGTTTCTATCCTGCACCAGGACTAAAGA
CGTTCTCTGAATATGTTTGTGACAGCAATCAGGATGCTCGAAGAAGGTCTGTAAATGAGGACGATAATCCCCCTT
CTCCTATAGGAGGAGATATGATGGATTCTTTAATATCGCAGCTCCAGCCACCACCCAGCAACAGCCATTTCCAA
AGCAGCCAGGAACATCAGGTGCTTATCCTCTTACTTCACCCCCTACATCTTATCATAGCACAGTCAATCAGTCTC
CCTCAATGATGCACACACAGTCTCCAGGAAATCTGCATGCTGCCAGCTCCCCAGTGGGGCTTTGAGAGCCCCAT
CACCAGCGTCATTTGTTCCAACCTCTCCCCATCCTCGCATGGAATCTCAATAGGACCAGGGGCCAGTTTGTCTA
GTCCACATGGAACCTTTGACCCTAGTTCCCCATACACTATGGTGTACCAAGTGGACGAGCAGGGAACCTGGCCAG
GATCTCCTCAAGTGTCTGGCCCTCACCAGCAGCAGCATGCCTGGAATGTCACCAGCCAACCCCTCACTACATT
CTCCGTTCCAGATGCTTCTCATTCCCCTCGAGCTGGAACAAGTTCTCAAACAATGCCAACAAACATGCCTCCAC

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FIGURE 1143B

CTCGTAAACTACCTCAGCGCTCTTGGGCGGCATCCATACCTACCATCCTCACTCACAGTGCCTTGAACATTTTAC
TGCTGCCCTCTCCAACTCCAGGCCTTGTGCCCGCCTGGCAGGTAGTTACCTTTGTTCTCCACTTGAGAGATTCC
TTGGATCAGTCATCATGAGACGACATCTTCAAAGAATTATTCAACAAGAAACGCTGCAGCTGATAAATTCTAATG
AACCCGGAGTGATCATGTTTTAAGACTGATGCACTGAAATGCAGAGTAGCTCTTAGTCCCAAAACCAACCAACGC
TTCAGCTAAAATTGACACCTGAAAATGCAGGACAGTGGAACCTGATGAACTTCAAGTTTTGGAGAAATCTTTG
AAACAAGAGTTGCAGGACCACCATTTAAAGCTAATACGTTAATAGCCTTCACCAAGCTATTAGGAGCTCTACAC
ACATCCTCAGGAGTTGTGTGCACATTATGAAGCTGGAGCTGTTCCCTGACCAAGCAACACAGCTAAAATGGAATG
TTCAGTTTTTGCTGACGATCCCTCCCAGCGCGCCGCGATTGCACCTCCTGGGACGCTGCTGTGGTGTGAAAT
CCAAAATGCTATTTTTTCTTCAACTAACTCAGAAAACATCGGTCCCTCCCAAGAACCTGTTAGTATTATAGTTC
CAATCATTTTATGACATGGCTTCAGGTACAACCCAGCAGGCAGACATTCCCAGACAGCAGAACTCTTCTGTGCTG
CTCCCATGATGGTCAGCAACATTCTGAAGAGGTTTGCAGAGATGAATCCACCACGACAAGGTGAATGCACAATAT
TTGCAGCTGTTCTGTGATTTAATGGCTAATCTTACACTGCCCCCTGTTGGGCGTCCATAGACACTATTGTTTTAA
ACCAGGAAGGCTGACAGATGAGACAACAAAAAAATCTGAATTCAGCCTTCAGTTTTAAAAAAGGAAAAGGACTTT
TTTTTTAAACITTTAAGAGCTAAATATTCTAACTGGCAAAAATTTTCAGGGTGCACCTCTTTCATCAAAATGATC
ATCCATCTTTTGTATAATGAACCTGTATAGTGTGTTAAATGGGACACATTTCAAAGGAAATAATCAGTGTCCG
TTTGCCAGTAATAAATTTAATATTCTGTTTTATCTATAAAGTTATGAAAATGCCAACTTGTTTTATTTAATTGT
TTTCTTATGTTTTGGGTGTAATAGTCCTTTTTTGGTTTTTGTGTTTTTAAAGGCAGGTCTGTCATTTTTGAA
TACTGTAAACTGTGATAAACTTTATATTGAAGCTGTATTTAATATGACCGCTTGAATCCTTACATGAAATGT
TCTGGGAGTTGTTATAAACACACCCCAAGGAAGCAATATTTAATAAACTAGGTCAAAAACAAAACAAACAGTG
ACACTCACTTGTGTGTATATAAACTCTAGAGACATCTTAGGCCCTCCCTTCATCTTTAACCTGGTGGATGGAGCC
AGTTATTAATTTATAATAATACATGTCTGAAATTTGACCAAAAACATCTTCTTATGTCAAGGTAAATATATTTT
CTTCAGACATTCTTAACCTGACTAGTGGTTAACATTTAGCACCTTGGTTGTCTTCAATATATAGGATTTGGGTG
AAAAATAAGGAACCTTAGTCTTTGAGAAGGGACAGTATGTGGTTCGTATTGATCAAGGATCCCAATAATGCAATC
ATTCTCATCTGTTGAGGATGTGGGAACCTTTCTGTGAGGAAAATTTAGTTTACAGAATACTTCTGCATACAACAT
TAATTAGGAAACAAAGAACTTTAATGCTGTACCTCTGCAATGAAGTTTCTGTGAGCTTTCTTTATCTTGCTTAAC
TATCCTCCTTTCTTCCCAACCAAAATTTGGGATTGTTCTAAACAATTTCAATTTAATTCATTGTCAACAAAACGA
TAGAATGTTTTGCTTGGAGAAACCTGGTCCATTCCCCTCATGTGAAGAATCCGAATCCTGGGCTGTCCAGG
GTCAAATGGAGTTTTTGGTATTAATACATCTCTGCAGGGTTTTCTTTTGGAGCACTGTGCTGTCTTCTTAGTCA
GTCAGGGACTTTTTTAAGCTTCAAAGAACATGGTCTGATGCAAAGGTCTTCTACCGACTTCATGGTATTTAGGAA
AAATTTTTAAGTGATAATACCATGCCGAGTTACCTGGTCACTGTAATACTGGTCTCCATTAAATGTAGATGCT
TTGTCTAATTCACCTTCAAGATGATTTAATTGAGCTTCTATAACTATCAACTATCAAAATCTAGTTTCAAGTATC
TCACTGTACCTATATCATATCTGTTCTCAACTTTGTTTGATTCTCCACTCATTTTCAATCAGAGTTGAAGCCTTC
TTTGCCTTTCTCTTTGCTTATTTCTGCCTTCATCTCCCACTTCTCACCAACTCTGCCACTGTTCCAGGAGCAG
TTGACTAACTTTTATCCTTCTTTAACTTAATCTTTTTATCCTTCTGTTTTTAGTTCTTACAGTGGTAATCACA
TCAGTTTGGCAATCTAAGATGCTTTATCAAGGGTCAGCCCTTTTCTATTTGGAGCTGAATCTTTTCTTTCATGT
AGAAATCTACATGTATATACAAGAAATGTATTTTATCTGCAGGATAATATTGTTTCAAATAATTTTATTAAGAG
TTAACTTTTTAGGTATTTTCCCTTTTAAATGTTGTTTTGAAATGTTAATTGCATTTTACACATGATGCATTCACT
GGACACTCTTTTTCTTAATTATAACTCATCTCTGAATGCATTGTGCCAATCAAGAGTAAGATAGGATTCACTGC
GCAAAATTTGCTTTTGTGCTTATTAAGAGTAAACCATGAATTTGAATTTTTATATTATGCTTGGTACTTGGAA
TTGATATATACCTTATTAAGCTTGAAAACATTTAGCAATTTGAATAGTAAGTTTATCACAATCATGTCTTTTG
CCTCTTTTGTACCAGGTTTCGATCAAGGGGACTGGATGCCCAAGTGATTTTCTCTAATAATCGGGTGGGACTT
AACTTTAAGGTGTTTTCAATGTGATTTTAGTATTTACAGTAATAAATAAAATTTATACAAAGTTTCAGAGAACTA
CCAACCTCTAGTTAATTTTGTGAAGATGTTTTTCAATATAGTCTGTTTTAGTATTTAATTTAACCTTGAATAA
GAAATTTGGTCTGATTTGCCACCTTCATTTTCCATCTGCTGAAATGCCATTTCAGAAATGTATAAAGTACTTTC
AGAATTAGAAGAAAAGTGAGAGCTTCAGCAGAACGTGTCAAGTCGCTAATAACAGGAGTCGAACCTTATGTTTGA
AAATTAACCTGAGTGAGTTAAGTGAAGCATAAACTAAATTTATATGACTTTGAATTTAAGAACCCTAATAACT
GTGTTCTAATTAACACAGTAATCTGTTTCAGCCAAAGGATACTAACAGCCATTCTTTGGACTGTGGTTAATTTGAT
AACTTCAAGAAGTTATAACTTTGCTACCCTGGATTCTGATGCAATTTCAATATAAAAAGTTGTTCTTTTCATAGT

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FIGURE 1143C

TTTTCCCCCAAAGAAGTGCCTATTACATTTTACCTTAATGTTTATTTATCATCCAAGTGTTCTTGATATAAAA
TCAGTATACAGAAAATTTTAAGAGAACTTACATTCAAGGGACATAGAGGGAAAATGTTAATGTGTATTTTATTGT
TTCTTGTGGAATTTTTTTTTTCATTTCGGTTTGAGAATGGACAGTGTGTCTAAGGATGTGATTTAAATTTACTTAGG
ATGGATTTAGCATTGAGGTATTAAAGACAAAGTTAGCAGAGGCCAGCCAGCACTGTGCTGCACAACCTCCAGGAAC
TCCATGGTATGCTCACAAATTTCTGCAAGTTGCCTCCACTTCCAAGTGGCCAGTGATTTGTTAAAATACCTTGCC
CAAGAATATAACTGATTGATGAAAGGGCATATTTAGGTCAATATAAAATAATAGCAAGTATTTACTGAGAGCTTA
CTGTGTGCTAGGCATTTTCTTAATATTTCAATGTGTATTTAATCCTCACAACAACCCAATGTGGTAGGTTATTGA
TATCCTCTTCTTAAAAATGAGTAAATGGAGGCCAGAGAAATGTAATTTGCCTGAGATCAAATTAAGGTTGCTTA
AGATCAAACCTGCTAAGAAGGGGCAGTTTGAGTCTGAGCTAGTGTCTCTAAACACTGGACATTTTGTGTGAACC
ACAGTCGGGAAGGTTTAATGTTTAGACTCTTTCCTCAGAGGCTTTTAACTACACACAATTTTGACATGTTTTCCA
AGCTCAGAAAGCTCATTAAAAACAACATAAACTG

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FIGURE 1144

MAPVQLENHQLVPPGGGGGGSGGPPSAPAPPPPGAAVAAAAAASPGYRLSTLIEFLHHRAYSELMVLTDLLPR
KSDVERKIEIVQFASRTRQLFVRLALVKWANNAGKVEKCAMISSFLDQQAILFVDTADRLASLARDALVHARLP
SFAIPYAIDVLTGTSYPRLPTCIRDKIIPDPITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFR
VEGEFEATLTVMGDDPDVPWRLLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC
LSLQLEVLHSQTLMLIRERWGDVQVERYHAGKCLSLSVNNQQVLGRKTGTASVHKVTIKIDENDVSKPLQIFHD
PPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAILRGFNANENSSIETALPALVVPPILEPCGNSE
CLHIFVDLHSGMFQMLMYGLDQATLDDMEKSVNDDMKRIIPWIIQQLKFWLGQQRCKQSIKHLPTISSETLQLSNY
STHPIGNLSKNKLFIKLTRLPQYYIVVEMLEVPNKPTQLSYKYFMSVNAADREDSAMALLLQQFKENIQDLVF
RTKTGKQTRTNAKRKLSDDPCPVESKTKRAGEMCAFNKVLAHFVAMCDTNMPFVGLRLELSNLEIPHQGVQVEG
DGFSAIRLLKIPPCKGITEETQKALDRSLDCTFRLQGRNNRTWVAELVFANCPNGTSTREQGPSRHVYLTYE
NLLSEPVGGRKVVEMFLNDWNSIARLYECVLEFARSLDPDIPAHNLNIFSEVRVYNYRKLILCYGTTKGSSISIQWN
SIHQKFHISLGTVGPNNGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMGLTQRTNTA
YQCF SILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLKTFLNMFVDSNQDARR
RSVNEDDNPSPIGGDMDSLISQLQPPPPQQPFKQPGTSGAYPLTSPPTSYPSTVNQSPSMMHTQSPGNLHAA
SSPSGALRAPSPASFVPTPPSSHGISIGPGASFASPHGTLDPSSPYTMVSPSGRAGNWPQVSGPSPAARMF
GMSPANPSLHSPVPDASHSPRAGTSSQTMPTNMPPPRKLPQRSWAASIPTILTHSALNILLPSPTPGLVPGLAG
SYLCSPLEFLGSMVIMRRHLQRIIQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQTLQLKLT PENAGQWKP
DELQVLEKFFETRVAGPPFKANTLIAFTKLLGAPTHILRDCVHIMKLELFPDQATQLKWNVQFCLTIPPSAPP IA
PPGTPAVVLKSKMLFFLQLTQKTSVPPQEPVSIIVPIIYDMASGTTQQADIPRQONSSVAAPMMVSNILKRFAEM
NPPRQGECTIFAAVRDLMANLTLPPVGRP

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FIGURE 1145A

GGGGCACTGAGGAGCGGGCGCCCGGGGAGCGAGGAGCCCGATGCAGGGTTCTGCGCGTCAATTTCCGGTCCCGC
GGGCGCCCGTGAAGCCCACCTGGATCCGCCAGCGCTGTGCCACTCCCCAGTGCCGAGCTCCGAGCTGTCTCCGC
GGCCTCGCGCCCGGCCCTCCACCGCGCACCTCTTAGGCCCCGCCAGCGTCCCTTTGTTGTGAAGGCGCCG
GGGCCTAGCGCTATGCCTGCGGCGGAGACTGCATCAGGCTCTCGCGTCTGCTTCTGCGCTTTGCCTGGGAGAGGC
CCTGGTGGCCTCGTTCTGCGCGCCGGAGTCCCTGCTGCGGCCCAACCCCGGGCGGTACGGTGACCCATGCTG
CCCAGCCTGGAGGTAAATCGTTCTGCTGGCTGTGGCTTCAGCATGTCGTCTCGGTGAAAACCCAGCACTGGAAG
AGCTGGTTCTGGCTCCGAAGAGAAGCCGAAAGGCAGGTGCGCTCTCAGCTGGGGCTCTGTGTTTGGTCACCGAA
GTGAGAAGATTGTTTTTGCCAAGAGCGACGGCGGCACAGATGAGAACGTACTGACCGTCACCATCACGGAGACCA
CGGTTCATCGAGTCAGACTTGGGTGTGTGGAGCTCGCGGGCGTGTCTACCTCACGCTGTGGTTCTTCTTCAGCT
TCTGCACGCTCTTCTCAACAAGTACATCCTGTCTGCTGGGAGGCGAGCCAGCATGCTAGGTGCGGTGCAGA
TGCTGTCCACCACGGTTATCGGGTGTGTGAAAACCTCGTTTCTGCTGTTTGTATCAGCACAAGGCCCGGCTTT
CCTACCCACCACTTCTTATGACGATGCTGTTTGTGGGTCTGATGAGGTTTGAACCTGTGGTTTTGGGTTTGG
TCAGCCTGAAAAATGTGGCGGTTTTGTTTTGCTGAGACGGTGAAGAGCTCCGCCCCATCTTCAGGTGATCATGT
CTCGGATGATTCTGGGGGAGTACACAGGGCTGTGTGTAACCTCTCCCTCATCCAGTCATGGGCGGGCTGGCGC
TGTGCACGGCCACTGAGATCAGCTTCAATGTCTGGGTTCTCGGCCGCACTGTCCACCAACATCATGGACTGTT
TGCAAAATGTTTTTCAAAAAAGCTGCTCAGCGGGGACAAATACAGGTTCTCGGCCCGGAGCTGCAGTTCTACA
CCAGCGCGCTGCGGTGGCCATGCTCGTCCCGGCCCGGGTTTTCTTACGGACGTCCAGTGATCGGGAGGAGCG
GGAAGAGCTTCAGCTACAACCAGGACGTGGTGTCTGCTTCTGACAGACGGAGTCTGTTCCACCTTCAGAGCG
TCAGGCGTACGCCCTCATGGGAAAAATCTCCCCGTGACTTTACGCGTCGCCAGCACCGTGAAACATGCCCTGT
CCATCTGGCTCAGCGTAATCGTTTTCGGCAACAAGATCACCAGCTGTGCGCCGTTGGCACAGCCCTGGTGACCG
TTGGGGTCTGCTCTACAACAAAGCCAGGCAACACCAGCAGGAGGCGCTGCAGAGCCTGGCTGCAGCCACTGGCC
GGGCCCCAGACGACACAGTGGAGCCGTGCTTCCACAGGACCCAGGCAGCATCCCTGAGAGCAGGAAGCTGCCA
GCTGCTGCTGTCTCTGACACTGCATCCCCAGAAATGGGCAGGGACGCCCTCTCCATGGCCCTGTGGGGTG
CAGGACATGGGGAGCTAAGTTGGCCATTGCCTGCGGCTTTCTCGGTTTGTGCGTGAAGACCAGCAGAACTCAAA
CTGGGGATTCCAGGTATCAGCTTCTGGAGTAGACACCAGACCAGTAGCTGACTGTGTCCGCCGAGCCCATCCCC
GTGTAATGTGAAAACAGCCTCTGAGGCTCCCATGCTGGGGGTGCCACTTCTCTCTGGGCGACACCCAGGGTC
CACCGGGAGCCAGAGGTGGGTCCAGTGCCAACGAGAGCCGCTCCCTGCCACAGCCAAGAGAGCCCTCGGCTTCCC
ACACCAGCCATCGAAGGCCCTGAGGCCCTGGACCGGCGGAGACTGGCCCTGGGCATGAGGCCACAGAGCAGGGC
CGAAGGGAGGGGACAGAGGGCCCTGGAAGGAAGGGTCTCTGCTGCCACGGTGGGCACTCAGAACTTCTCCCCAC
CTGACCCAGGGCTGTGGGCATCCTCAGACTATCCAGAGGCATCGCAAGCCTCAAGCTGCAGCATTGCACGGCAC
TCAAGGGCTATGACCACGGAGGCCGTTTCTAGTCGCTTCTGTTTAGAGGAAGGCCCCCTACCTTCTCCACACCCTGC
CCTCTATCCCTTCCACACCCTGGGCTGCATGAGCTCCCCGAACCCAGGGCACCCCTGCCCTCCTACCTGTGGG
GGTTTTCCAGCCCTGAGGTTGAGGACAAACCTCTCGTGTAACTTGGGAGGAGATGTGTACGTTCTCTTTCTTTT
TTGGACTCTGAGTATGAGGCAGGCTGTTCTGAGGTCCCGTGGGGTGAGCCTGTCTGTCTCTCCCTCAGAGCCAC
CGTTCTATCATCATCTAGCACCTGTCCGGTTCCCCACGTGAGCCTTGGGCAGGACGCTGCAGTGTTGATGGTTT
GGGTTACGTGGCGTTTACCTGGGCGCCGTCCTTGTGAAAAAGGAAACGTCCACACTGAATGTTTCTGGGGCGCG
TGGTGTGTGTGAGGCGCCACCCCTGTCCCACTCTCCCCAAGGGACAGTAGTACGGCACACTGGGGCCACCAGCCA
GCTCAACTCATCTCTGTGTACGCACCCCGAGGGCGCAGGAGGCTGAGGAGTGGCTACTGGAGCCGTGTGT
TAGGCAGAGGCTTCTGACCATGTCTGAGCTCTTACCCCCAATCTCGCAACCGGCGGATTCCCATGCCCGGTGCA
GCCTGTTGCCAGCCAGCCTTTGAGACCCAGAGCTCCAGGGCTGTGAGAGGACGATGGGGCTCCAGTGGTCCCG
AGTCTCATTTCCCTGCCTGCTCTTTAGGCCCTTGGCACCCATGGTCACTTCACTGGTTTTCCATTGGCTTCTCA
CCTGGGAAATACAAAAATAGCCCTCCTGAAGATAAAATCGTTCAGAAACAGAGCAATAATTCTGACTCATTAAAC
TTCTACCTACTCAAAAAAGTCTGCCATGATGATGGACCGAAGTGAGGCTTTTTAACCACAAGTAACCTTTTTAT
TTTTTTGAGACGGTCTTGCTCTGTCAACCAGGCTGGAGTGAGTGGCATGATCTTGGCTCGCTGCAGCCTCGACT
TCCTGGGCTCAAGTGATCCACCTCAGCCTCCATGTGGCTGGAACCGCAGGCAGTGCCACCATGCCTGGCTATT
TTTTTGTGAGCTGGGCTCTCGCTTTGTTGCCAGGCTGGTCTTGAACCTCTCGGCTCAAGCAATCCTTCCCACT
CAGCCTCCTGTAGTGTGAGAATATAGGCGTGGGCTACTACCTGCTTCAGCCGCTTCTATAAAACCGCTGACC
TGTGTGTGGAGGACAGGCCAGGTGTGTGCTCACTGCGCTGCGAAGATGTTTTGTACGTGACTTTCCCTGGGTTT

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FIGURE 1145B

CCATTTCTTTTTTCTGCTTTCCTCAAAAATAATAGAAGACCGGCTGCGGTAGCTCAGGCCTCTAGTCCCAGCA
CTTTGGGAGGCTGCAGATGGCGGATCACAAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGATGAAACCCTGT
CTCTACCAAAAATACAAAATTAGCTGGGTGTGATGGTGGGTGCCTGTGGTCTCAGCTACTCAGGAGGCTGAGGC
AGGAGAATTGTTTGGAGCCCCAGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAA
CAGGGCAAGATTCCGTCTCAAAAACAAACACTATTAGAAAATGCTCTGGAGGTGGCGGGAGTTGTTGATTTGTG
AGGACAGATTGAAAGCAACTCCCAGGGTGGCCTTGTCCACCTCCCCATCGAGAATATGGCTGCCGGCCTCTTTGA
AGATTGTGGTCTGGCATAAGGAGAGGTGCAGGCGCCTGGTTCTGAGCACCTTGGAAATTTCCAGCCGCACAGCATC
TGGTGGCCTCCCCCTCCACCCTCACAAGGAGCTGCCATCCTGTTTGGATTTTCTGTTTGTGGACCAGAAACAAACG
TTTTTCCAAAGGATTAGCAAATAGGTTGATTTCCCTGTGTAACGCTGCTCTGGGGCCTCTTCCTCATCCTGGCAGA
AGGAGCCTGGAGCCCATGAGGCAGCCAGCACTGTGCCCTTGTCTAGTCTGTGCTGTCCCTCCCTCTCCCTCAGTC
TCTTCTCCATGCCCAAGTCAGTTTCCAGCCGCTGGTCTTCATGGCATTCCAGCACAGCTGGACACCAAGAGGCA
AAACCCAAAGCCTGGCTTGGCCGTGTTAACGATTGTACAGACATTTTTTAAATAACTTTGTGTAATACTTTTCT
AGAATAGTAAGTTCTTGTGTAAGTGTACAGATGAGCTTCTAGGAACACACCGGGTGTGGTTACTTCCACTGGGT
GTGTCCATGGTCTGTGGTCTGTGCCCTTTGTAAACAAACAGAACACTTGAACCACCTTCCGAATTGGGTCTCGGCT
TCTTTACATTGATACTTAGAGATTGTCAGCTCTCTAACTTTCAAGGAACTTCCCTACTGAAAGGCATAAAAAG
GTTAAAAAAGAAAATCCGAGAGTCCCAATTCCTGTATAACAGCATTAAAAATAATCTGCCTGCCTGGAAGATGA
GAACACTGTTGCACAACCCAAAATGTGTTTTTAATTTGTGAAAAATTACCATGGTGAGTCAGACAGTCATTTTAA
ACAGCTGAACAGAGACTATCATCAGCAAATAGAGCTCAGCTTTGTAGCTGCCTTTAAATCCTTGTCCCAAATCC
GGTGAGCTCTGCTTGCTGCCGCCGCGCTCCTGGGTGATCACTCAGACGGGTGAGTGGGAATAACGGGCCAACAAG
ACAGCTTTTTTACATGTGTCCAAAGGATGGCCTTTTCGAAGGCCTGGAAGTATTTCACTGTTGGAAGAAGTAAACAA
GAATGACATTCCAGATGGAAATAGAATTCTCTCTCTTGCCTTTGACCAACATGGTACTAAGGGTTTTCTTCTTC
CCAATGATGTACGTGCCCTGCTGGGGCCCTTACTTTATAGAATGAGAGCATCCGAGCTTCCCTAATGAATCTGG
CTAGTTCTGTGTCTGGCTGAGGATACAGGAGTGGGACATCCACTCTCGGATCCCTCAGAGCACAGAAACCTTCAG
CTTTGCTGTCTCTGAAGTATTTCCCTCCAGTTTCCCTGCGGGCCCTATGTTTGAGTTTGATGGCTGCTGGATCCT
CACTCAACGAAAACCTCGGTTGGAACCTGTTCCGCCTGGCAGTCCTTTTTTGTGTTTTCCATCTCATTTCCTTC
CATCTGAAAGTGGCATTGAGCTGACTTGCTCATTTAGACTGTTACGGAGTCTGAATCTGCCAACGTGGTGTGG
AGGCTCCACCTTGAAAAGGGCCACAGTCAGGGCAACTTTCCCATACAGGAAAACCTGAAAATTACATCAACAGT
CTACGTCACAGCCAAATTATATTTCCCTTTATACCAACAAAACCTATGGAGAACTAAAAGTACATCACACAAAACG
TTTATAGTGTGTTTGCATGTGACCTATTTAGTATTTATATACTAGATTAGTCTTTCTAGCAAACGGTTCTGTT
AATTAGCGAGTCACTGTTGATTCTGCTGTGGTGGTAAGTTGATACCGTGTAACTAATCCCGTGGATGCCTCCTCG
TTATTTTTGTCCAAACGAAGCAGCCGTGGTAGTAGCTGTCTATGATTCTTGCTCAGCAAAGTAAAATAAATGTTA
AATATGG

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FIGURE 1146

RYACGGDCIRLSRLLLRFAWERPWWPRSWRPESLLRPHRAVTVTTHAAQPGGKIVRGCGFSMSSSVKTPALEELV
PGSEEEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITETTIESDLGVWSSRALLYLTLLWFFFSFCT
LFLNKYILSLLGGEPSMLGAVQMLSTTVIGCVKTLVPCCLYQHKARLSYPPNFLMTMLFVGLMRFATVVLGLVSL
KNVAVSFAETVKSSAPIFTVIMSRMILGEYTGLLVNLSLIPVMGGLALCTATEISFNVLGFSAALSTNIMDCLQN
VFSKKLLSGDKYRFSAPELQFYTSAAAVAMLVPAVFFTDVPVIGRSGKSFSYNQDVVLLLLTDGVLFHLQSVTA
YALMGKISPVTFSVASTVKHALSIWLSVIVFGNKITSLSAVG TALVTVGVL LYNKARQHQQEALQSLAAATGRAP
DDTVEPLLPQDPRQHP

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FIGURE 1147

CCCACGCGTCCGCTTTAGTGCGCTCGCCGTCGGCTCTACCTGCGTGCTTTAGCTCCTTCTCGCCTGATCCTTCTG
TCTCTCCCAACCCCGGACACCCGGCTTCGACTGGTTATATCTTCGGTGTCTTTTCTCTCTTCTTCTTTTCGCGG
TTCAGCATGCAGGAAAAAGACGCCTCCTCACAAGTTTCCTGCCACACTTCCAACATTTCCGACGCGAGGCGATC
CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAG
CAAGGGGCGCCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAATTGCCTTGAAAA
GCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGCCCTTTGCTTCAGGTTTAGCAGCCACTGTAACATTACC
CATCTTTTAAAGCAGGAGACCAATTATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAA
GTGGCATCTGAATTTGGATTAAAGATTTCTTTGTTGATTGTTCCAAAATCAAATTACTAGAGGCAGCAATTACA
CCAGAAACCAAGCTTGTTTGGATCGAAACCCCAACCCACCCAGAAGGTGATTGACATTGAAGGCTGTGCA
CATATTGTCCATAAGCATGGAGACATTATTTGGTCTGTGGATAACACTTTTATGTCACCATATTTCCAGCGCCCT
TTGGCTCTGGGAGCTGATATTTCTATGTATTCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGC
CTGGTGTCTGTTAATTGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAACTCTCTTGAGCAGTTCCATCT
CCTATTGATTGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGA
ATGGCAGTTGCCAGTTCCCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCATCCA
CAGCATGAGTTGGTGAAGCGTCAGTGACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGCACTCTTCAG
CATGCTGAGATTTTCCCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTCGAAAGCCTTGCT
GAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTCCTTGGAATTAGTGACACACTG
ATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAAGCTTTGAAGGCAGCACAC
CCTCCAAGTGGAAGTCACAGCTAGTATTCCAGAGCTGCTATTAGAAGCTGCTTCCTGTGAAGATCAAATCTTCCT
GAGTAATTAAATGGACCAACAATGAGCCTTTGCAAAATTTTCAAGCGGAAATTTAAGGCACCTCATTATCTTTC
ATAACTGTAATTTTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAATTC
TGTTAATATCTTTTTGTTAATTTTGCTCTATGTTTGCTCTGAAGGAGGTGAGATTGTGCTACTTTGGGAGATT
ATGTTCTTTTTTCATGCTAAGATTTATTTTGATCATGTTTATAATATAATGGTAATTCATTTTTGATGTTTTGT
GAAGAATTTAAATTTAAACGAATGTTCTTAAATCAAGTGTGATTTTTTGCATATCATTGAAAAGAACATTAAAA
GCAATGGTTTACACTTAAAAAAAAAAAAA

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FIGURE 1148

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSGNPTRNCLEKAV
AALDGAKEYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPE
TKLVWIETPINPTQKVIDIEGCAHIVHKGDIILVVDNTFMSPYFQRPLALGADISMSATKYMNGHSDVVMGLV
SVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQH
ELVQRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIR
LSVGLEDEEDLLEDLDQALKAHPSPSGSHS

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FIGURE 1149

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCCGGTCGCCAGGCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCTGAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTGAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCTGCGCTCTGTGCCATTGACATTCAACAAGACGCTC
TATCACATCACACTCTGGACCTTCCTCCTTGCCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCACGATTGGCGTCTGGCACCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTGGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAACTGAGGCCAGCATTATCACCTCCAGGACTTTCTC
GTTTTCCACCTTGGCCATCTTCTCCTTCGTGCTCTCTCTCTTTAATTTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACCTTTTAGCCTCTTTTTTTAATTTTAAATTTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCACTGTGTCTCCTTCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACATGAACTTAAACCTGCTGCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCTGTGTGTGAGCAAGACCACAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTGTGTAACAACT
TTTGTAAATAAATAGAAAAACCTCTGCTCTGATCAGTTCTTGTACTTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCCTCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCTCCGGCTCCTTACTGTCAATTTGCTCATTCTCTTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCAAACTAAACACTAAGTGCCCTTCTTATTTCCTCCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAAGTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCTACCCAGAGGGCCTCCCC
AGCTGGACCCCTCATACACAGTGTGTGTATCCAAAAGGCCATTGCTATTTAGCAAAATATTTGTTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACAAAAATAAAGAACTTCAAATAGGGATAAGAACTCTAACAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCTCCTG
AGGAGATGGATTTTTTTTTTGTTTTTTAGAGACGGGGTTTCACTCTGTCAACCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAA

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FIGURE 1150

MSRFLNVLRSWLVMVSIIAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRQKKRN

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FIGURE 1151

GCACAGGTGCGGGCTCCGGCTTACGGCGGCGACGCGGCGGAGGCGGCGGGAGGCCAGAGGCGCTCACCTCCTAGG
AGTCCGACGGCGGCGACAGGGGCGGTGGGGAATTCACAAAGCTCGTCGAGCTTACCGGGCACCAGGCCCCGAGT
AGGGGATTGTGGATGCGCGGGTCCCGGGTGGGGTCGGGGCCAGAGGGGGTCGCTAGTGCGGGTGTTCCACGGCTGA

TCACGCTTCGTTGGCCCCAGGCGGTGGGCTGCCGGCAGGGCAGGGCGCTGTAGTTGACGGGAGCTGCGGGGACCC
CGGAGACCCGGACGCCCCGTACCGCCCCCTCCCCAGTCCAGCAGCGCTCCGCGGGGATGCCCGTGGTCTCGAC
CCGGTCCGTACGCCCCGGCGGCGCAGGGATCCGCGCCCCGGCGCTAAACTGCCCTGGTGTCTCTTCGTTCTGG
CCCGGGGCTGGCGGGGGGAGGTGCAGCATTAGGGGCGCTGAGGTGACACCCGAGAACTTCCCAGGGAGAGGGTGC
GCGGGGGGTGGATTTCACAGTCCTTCCCGCGGCCCCCGCGGGGGGGCGGTGTGGGAGGGCACTTGGGGTTAT
CCCAGGCTCGCCGGTGGGGGTGGGGGACTCCTCCCTTTACTTCCCTCCACCCCTTGACACCCACCCCAAGG
TTCCCGTGTCCCTTGTCTCCCTCTCTCCGGGTAGAGATAGGTGGGTGGCTTTGAGTGGCGGAGGACTTCAGG
GTTTAGGGGCTCCCCATTCTAGGTCATGCCTCTTGCTCTCTTCCCTGGCCTGTGTTGAGTAAGGTGTGTTCT
GTGGTGGACGAAAGTCTGTACGATGGTTGGTGGCATTGGTCCTTAATCCTTTGGGTCTGTTTTAAGGTAAAGTGC
TGAGAGTTTGGGAAGCAAAAATTTCTATTTATTGGATTCTTTTGGCTTTTCTCTCAAGAAGGAAGTGAAAAAG
AGTCTTTTCTTTTCCCTCTTCTCCATTTCATTCTTTGTGAGGTTTGTCTGCCTTGTGCTTTTGTCCCGGAT
TAGTCTTGTGAAGGATGGAGATTCCCAGGCGTGGAGTCTATAGCTTTTGGCTTCCATTAAAGTAAATCGCTAAC
CTTTTTTAAAGAGAAAGTTAATTTTTGCTGCAGTCATTCCAGAAAAATAGTGTACACGGACTAGCTGAATTAAT
CCACTTAAAAATTGTAACCTAGTTACATATGGTAGATATGTTAACTCCTATCTGATTTTTTGGATGAACTGTTG
TTTTGTTTTTAAATAGGAGATGAAGTAATGGATTTTTTCCCTCCCTTAAATGGCATAGCTGAGAAAGCCCCGG
TACTACTAATTGAGATGATCTGCTTAAGAGTCTTCATATTCTGAACCTCGAAAGGCCTTTATGTTATATTATTGC
TCGCTTTACGCAACTCCAAATTGCTTTCTTAAATGAATGTTCTTCTAGTAACTGGTGTAGATTTAAAGA
AATCACTCAAGCTTCACCTTGGTAAACTGAACTCAGTTTAAAGATTAAGAACTGATTC

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FIGURE 1152

AQVRLRLTAATRRRRREARGAHPPRSPTAATGAVGNSQSSSSLPGHRGFSRGFGCAGPGWGRGQRGSLVRVFHG

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FIGURE 1153

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCCTTCG
AGGCGCCCCCAGGCCGCGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCCAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTGCGGGTGGACTGCAAGGACCCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTTTGGACTAGCATTTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACCTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCTGTCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTTCATGACTTTAAACAAGAACTTACAGCCTATTTAGATCTTAACTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCCTATCTGATTTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTCATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAAGGTATTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTTGAACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCACCCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTTCATGTAAGTAGCAAACAGGGCTTTACTATCTTTTCATCTCATTAAATCAATTAACCAT
TACCTTAAAAATTTTTCTTTTGAAGTGTGGTGTCTTTTATATTGAATTAGTAACTGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTATCTGGATTTTATGTTTTATT
AGCATTTTCAAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCAATTTGAGCACACATTTTAAATTTCCCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGAATTTAAGAAATAACTTGTGTTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAGAGAATCCACATAAAGAAGAACTATTTTTTAAAAATTCCT
TCTATATATACAATGAGTAAATCACAGATTTTTCTTTAAATAAAAAATAAGTCATTTAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 1154

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRAWCWCFCGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 1155A

GCGCCCCGCCCTTTCTCGGCCCCCGGAGGTGACGGGGTGAAGGCGGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCGCAGCCGTACCCGCGCCGCGTCACGGCTCCCGGGCCCCCCTCCTCT
GACCCCTCCCCTCTCTCCGTTTGCCCTCTCCCCCTCCTCCGCCGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTITTTCTCCTTCTCGCAGCCGCGCCAGGGAGCTCGCGGCGCGCGGGCCCTGTCTCCGGCCCGA
GATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCTGGCCACCGACTCTACAAGTTACTCACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAATACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCTCGAGGGCTTTGTCTAT
TCCCAGAGGAAATGTTCTCTTACGGTGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGAC
TATCTTGTTCAGTCTCGGTATCCAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATA
TTTGTTAGAACTTCTGGTAACCTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAAAAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTTGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAACCCCTCTTGACACTGTGTTAAAGGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGGTCTGTTGGAGGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTCTCAA
GTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTACTGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTATTCAATTTGATGA
AATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCATTAGGCTTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTATGGACATACTGCCCTTTTCAATTTTTCTTTTCCAGTGTGTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTTATATATACTGATGATCACATAAAACAGATTTGCA
TAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGTACAAACAAGATTGTGTAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCATGATTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTGTGTTATTGT
ACAATTTGAAAATTATGTCGGGACATACCTATAGAATTACTAACCTTACTGCCCTTGTAGAATATGTATTAAT
CATTCTACATTAAAGAAAATAATGGTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAATACTTACAAAAGTGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGTACTTAAATGTTTCAATTCTGTTATATTT
TTTATTAAGTTTTTAAAAAATTAAATTGGATATTAATTTGTATGGACATCATTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAATGTTCTAGAGTGATTAGCTACTAGATTC
TGAATCATACATCACATCTGACTAGAGACCAGTTCTTTTCAATGATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACTATAGCCCAAAGGCCAAATTTGGACTTCTTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGCCCAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTTAACTGACATTAAATGTGAAATT
TTAAAATTGAAAAGCCATAAATCATCTGTTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTGTAGTGGTATTAGAAAAGATATGTTTTTCAGATGGTCTTTAAACA

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FIGURE 1155B

TGTAGTGAGAACAAATAAGCATTATTCACITTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAAGAACTATTACCAATAATAGTTTTGATAATCACCCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTCAGCAGCTTCAGAATAGAGTTTAATTTAGAAATTT
GCAGTAAAAAAGCTATCTCTTTGTTTACAACCATAAATCAGGAGATGGAGATTAAATCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCACCCTTAAATCAGTCTAAATCTTCAGACAAAAGCAAA
TGGCATTATGGAATTAAGTCATTAGATTTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAGTAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTATAATGAAATCTATCTTGAAA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTTGTAG
TTTTACATTCCTTTTAACCCATTTCAGTGGAGAATGTCAGCTTTTCTCCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTTAAA

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FIGURE 1156

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVSYFECREKKTENSKLRKVYEETVIFYGLQYILNKYLKGKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVPEGFVIPRGNVLFVTENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPDSGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTPAGNFVTLEEGKGD
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1157

CGCGCGGCCCTGTCTCCGGCCCGAGATGAATCCTGCGGCAGAAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTACTATAAACAATATCCACCCAAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAGGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTT
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTCTGAGGGCTTTGTCTATCCAGAGGAAATGTCTCTTCACGGTGGAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTTGTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCACGACGAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGTGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGCTCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCTTCAAGTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAGCTATTCTTTGATGAAATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTCATATAAATTACCATGATTGCTTTATGTTTATTTAACTTGTATTTTGT
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTCCAACTTTTCATGATTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAAATCAGCAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCATAGAAATTACTAACCTTA
CTGCCCCCTGTAGAATATGTATTAATCATTCTACATTAAGAAAAATAATGGTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGATTGTACCAGTGAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAAATACTTACAAAAGTGG

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FIGURE 1158

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLKGVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP I E I KAVPEGFVIPRGNVLFTVENTDPECYWLINWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEKYLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTRKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRSLHRT PAGNFVTLEEGKGD
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1159

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACTCCTCTGAAGCAAG
CTCCGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGGCAGAGTGAAGAGAAGCCCGTGCCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTGTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAA

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FIGURE 1160

MTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFEPTQPVKKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFLDLKGECDIHENVDTDLPGSLGQSEEKPVPAAPVPSVAPAPVPSRRNPPGGKSS
LVLG

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FIGURE 1161

GGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTGCGAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCTTGAATTA
TCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTAGGGTCTATTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCCAGCGTCTTCCATTCTTTCAAGCTCAAATCTT
TCACITGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGAATATAAACTTGGTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTATAGTCATCTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTAAAATTTGGAGGGGTCTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATAAAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTTCAATTCAACCTGTTTCTAGGTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAATTGATTTC
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTGTCCTTAACTCATAAGAATAATATTTAC
TGTGTCAGTGTCTTTTAGGATTATAGTTATTGTTTATTGATTATTTTCAAGTTGAAAAGTAGAAGTTCCAAGTTTTG
ATTTTGGTCTGGTCTTTAAGTAAAAATTAAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAAATATATTGCCAAGCAACACTGTTAAAGAAAAGTAAACTCATTTTTCTTGTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTGTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTGATTATCAGTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1162

MNARGLGSELKDSIPVTELSASGPFESHDLRKGFSCKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDTIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1163

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACCGCCGCTCAGGGTTTTAGAACTTCAGCCATAAAAAATGGGCAGAATTTTCCTTGATCATA
TCGGTGGTACCCGCTCTGTTTTCTTGTCAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCCCACTGGCAGAGCATTCTTTTTAAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCACTGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAAACCTGCAATAGCAAACTGGGATGGATCT
ATGAGTTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCTGATCCTGGAACGTGCTCTAGTTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTTCCCAGGTCT
CCTTCACTGAAAAACAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAAATGAACTGCGGAAC
AAGAGGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTAAATTTTGTATTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAAGCTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAGGAGTGTGTTTTATG
TCAATTGTGAAAGGAAAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTGTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATCTCTCTTGTCA
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCAACACATAATTGGTGTGATTGGAACTTTTTCTGA
GATGGGACAGAAGCTGCTGGGTTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAATAAGTAATAGTTGGAT
GCTTTTGGTCTGTGTTGCTTTTTAAAAACACCTTATAAAGAGGAGAGTATTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTTCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCGAGTGTGCAATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTCATGCAAAAAACATTTAATCT
GCATCTGTTTTAGAAAAGGGGAAATGAAGCAACTTGTCTAAAAATACTGCTTTACAAAGCATTTCAGCCTTTCC
CCCTCAGTTTTGCATTGATTTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCTAGATCTCTTATT
TAGCATTTTTTTCAGCTCTTCTCTCAGAAGTTCAGCTGTTGAAACGAAAACCTGTACTTTGTACCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTATTTTAGCCCCAAATTTATGACATTACACAATATTAAAATGTAAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTGCTTCTGGTGAATTAAATGACGGTAAAATTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCCTTTGTCTAGAAAGGAAATTTGCCCTCAG
TTGAATTAGTGAATATTTCTGTCGTTGATATTAAAAGTGACTTCTGAGTACAGTTAAGTTCCCTCCTATTTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAAGTAAAGTAGGTATGATACTGCATTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCAATTCATTCAATTCATCTGCTTTTGAT
TATATGCAGATTCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTGCTGTCACAATAAGTATATTTTGT
CTTGCAAA

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FIGURE 1164

MGRIFLDHIGGTRLFSCANCDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVCKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPDINS

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FIGURE 1165

GC GACTCGTCCCGCCTTCTG GGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAGATGGCGGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTTCATTAGGAACCTGCTAAGAATCGGCCCGGTCCCGAGACACGATCAGA
CCTACTGCTGTGAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTCTCCATGGATTTCGTCCAGACTCAAA
AGTGGAGAAGATTGCGAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCTGCTGCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTGGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAAAGTGGATGTGGTGGCACAACCTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTGATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTTCCTGACCAATAAGAAGGGATTTCCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTTCATCATCAGGCACCAA
CCACCCTCAGAGAAGGAGTTCTGCTCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCTCCACCTAA
TGCCATGAACCTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTGTTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAGCAGGCCGACCGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTGAGTGGCTTCTGGGCTCATTGTGCTGACAATGAATT
GTCGCCTGAGTGCCTGGATGGAGCCAGCACTTCTAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCTCCTCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCCTGA
GGCCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCCATAACGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTTCATAACCCACAGGCCGCTCATATACCATTGGCCTCTAGCCCTGCGTGCCAAGTGCCA
GAGCCTTGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCATCTGCTTCTGCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGTGAGGAATTAGTGTGATTGTAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTGAACGGATTTTCAGCCTTTTCTGTTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1166

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGFDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPIRDPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDIIENAPTTHTEEYSGEEKTWMWWHNFRTLCDYSKRIAVALEIGADLPSNHVIDRWLGEP
IKAAILPTSIFLTNKKGFVLSKMHQRLIFRLKLEVQFIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPLQPLMDNLESQTYEVFEKDPIKYSQYQQAIYKCLLDREVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAKQADRRRIKLYAVEKNPNNAVVTLENWQFEWGSQVTVVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFTFSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFAFYFETVLYQDITLSIRPETHSPGMFSWFPILFPKQPI TVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 1167

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCCATGGCCACAAGTGA
ACAGAGTATCTGCCAAGCCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCCCGCCAGGTCTACGGCTTAAACTTTGCAAGTAAAGAAGAGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGCCCTGAACATCATGAATTTCCCAAGAAGGAGGCCCTCCAGCCAGCGTCAGGTGCAGAATGG
CCCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCTCCACC GCCCCCCCCCCACCCCACTCCACCTCCACCCACTGGGGCTACCCACCTCCCCACC
CCCCTGCCAGCCGGAGGAGCCAGGGGTCCAGCCACGACGAGAGCTCCATGTCAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCAGTGGGACCTCAAAGTC
CGATGCCAACCCGGCAAGCAGCGGGGTGGCGGAGGAGGCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACGTAAGGGGCGGCCTCGCTGCGCTGATTCTGTCGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTCAACTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTTGTGTTTTATATTTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCTAAGTCACCTGCTTCATTAGACGGTTTCCAGGTTTCTCCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCAGCGTGGCGCCACCACACCCGCAGAGCTGTCCAGGCAC
AGCTCCGTCCCCAGCGCTCATGGTGTGAAACTGTCTGTGATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MATSEQSIQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVVINYSIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

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FIGURE 1169

GGGCTCTCTCCTTGTCAGTCGGCGCCGCGTGGGGCTGGTGGCTCTGTGGCAGCGGCGGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACATGGTGCCATCCCTCAGA
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGTATGGAAAAC
CAGAAAATGAGTTTTCGTTTAAATGCAGAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAGCACTCATG
ACCATTTGGAAAGCATTAGTACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCGTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAAA
AAAAAA

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FIGURE 1170

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPYADKDVFMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRYVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRYKVPDGKPENEFAFNAEFKDKDFAIDI IKSTHD
HWKALVTKKTNGKGISCMNTTLESPPFKCDPDAARAIVDALPPCESACTVPTDVKWFHHQKN

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FIGURE 1171

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG
GCGGCACGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACASGTGGCGCCMGSAAGMRGGTTGCTGTGTTTG
TGCTTCCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGT
ATAAAATCCAAAAAAGGTTGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCACAAGAAGC
CTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGAAAC
AGAGGCTTGAAGAACTAAAAACAGCAGCAGAAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAGAACTTGAAA
CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAAAGGAGTTTGGGCTTTGCAAACTGAGAACAAG
CCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATGTTG
TCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGAGTG
GACAGAAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAGGAGAATTTGGAGAGCTGGCTAAATT
ATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCAAGC
GTGTGAAGGCAAAGAAGAATGCTGCTCCATTGAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGAAAACCTC
TTGGAGGTTTTTCAGGAACTTGCAAGCAAGCCATTGGGTTGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCA
GCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAG
TTGTCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTG
CGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGG
CTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTATGCTTG
CTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTGAGT
GGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTGGACTCCTCCTCCATATTTTAAAGAGAGTA
TTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAAGTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
AGGGCCCTCATTGGCCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGGACA
TACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGGAGAGGAGGATGACAAAGACAGTGACCAGGAAA
CTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGCTGCAGAAGAGACAGGGGAGGCACCTCTGAGGA
GACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGATAAAATCATTGAAGAGGATGATGCTTATGACTT
CAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTAAACATTTAAGCAGACTGCTAAAC
TGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGCAAC
TTGGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAAAGA
AGATACCTATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREAE LRKQRL EELK
QQOKLDROKELEKKRKLETNPDIKPSNVEPMEKEFGICKTENKAKSGKQNSKKLYCQELKKVIEASDVVLEV LDA
RDPLGCRCPQVEEAIVQSGQKKLVLI LNKSDLVPKENLESWLN YLKKELPTVVFRASTKPKDKGKITKR VKAKKN
AAPFRSEVCFGKEGLWKLLGGFQETCSKAIRVG VIGFPNVGKSSIINSLKQEQMCNVGVSMGLTRSMQVVPLDKQ
ITIIDSPSFIVSPLNSSSALALRSPASIEVVKPMEAA SAILSQADARQVVLKYTVPGYRNSLEFFTMLAQRRGMH
QKGGIPNVEGA AKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIVVDMKSGFNLEELEKNNAQSIRAIKGPHLAN
SILFQSSGLTNGIIIEEKDIHEELPKRKERKQEEREDDKDSDQETVDEEVDENSSGMFAAEETGEALLRRLQQVNS
LQGLLSWIKSLKRMLMTSVQIMCNRTMAFYDFFF

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FIGURE 1173

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGGCTGTA
GCTGCAGTAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTGTTTGTCAAAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTTCTGGGGGAATCAAAGAGAA
ATGTGCCTCATTGGCCATTGAGAAAAATGCAGTCTGGTGATTTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCTGGATTGACATTCTCATTAGAGAAACCT
ATTTCTTTTTTTCTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTCCATAGTGCCA
AAGCCATACATATTTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTAAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCACTGATAGTAGGTTTATTGGGATGTAACCTATGATAAGTTGAGAAACATCTCTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1174

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYN CNVELALTS DGR TIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNP PKDR

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FIGURE 1175

ACAGGGGAAATACCGCGGCGCCGGTAGTTGCTGTGGTTTTCCGTTCTGAGCTCGCAGCTTAGGAGCTGAAGATCGC
GGACTTAGCGTTGCCGCGTCCGAGTCCGGCCATCAGTGGCTGCAGATCCGGAGCCAGGAGCTCAACCACCCCTTCT
TCGGAACAGGGCCGGCCTGCTGCTGTGCCCTCGACGCTCGGTGCCTGTATCTACTCCGGGGCCTAGGTCCGGCTCC
GGGGGCGGCTTAGGAGAAGGCCCGCGGCGAGATGTTCAAAAACACGTTCCAGAGCGGCTTCTCTCCATCCTCTA
CAGCATCGGCAGCAAGCCTCTGCAAATCTGGGACAAAAAGGTACGGAATGGCCACATCAAAAGAATCACTGATAA
TGACATCCAGTCCCTGGTGCTAGAGATTGAAGGGACAAATGTAAGCACCACATATATCACATGCCCTGCAGACCC
CAAGAAGACGCTGGGAATTAACCTTCCTTTCTTGTGCTGATTATCAAAAACCTGAAGAAGTATTTTACCTTCGA
AGTGCAGGTACTAGATGACAAGAATGTGCGTCGCTTTCCGGGCAAGTAACTACCAGAGCACCACCGGGTCAA
ACCCCTTCATCTGCACCATGCCCATGCGGCTGGATGACGGCTGGAACCAGATTCAAGTTCAACTTGCTAGACTTCAC
ACGGCGAGCATACGGCACCATTACATCGAGACCCCTCAGAGTGCAGATCCATGCAAATTGTGCGATCCGACGGGT
TTACTTCTCAGACAGACTCTACTCAGAAGATGAGCTGCCGGCAGAGTTCAAAGTGTATCTCCAGTTTCAAGCAA
GGCAAAGCAATAACTGGAATTGTGACTCGAGGGATAGACCCCTGGATGTGACTCTTCTTTTTAAAGGAACTAT
GTGGAGGACGATGCAAAAACATATTTATCTTAGTTTGTCTGTGCTGTAGTTCTGTTATTTATACTTGGTGTGCTT
GTCATGGACACCGGTGAACATGCCGTAAGTCTGTGACTGCATTGTAAGTGCAGTGGGGGTAAGCAGTCCTGTGAG
TGGCGCATGAACGCTGGAGCTTATTCCGCCGCTGCCCCAGTGTGGGGGAGATACCTTTACCATGAACTTACAG
AATTAAAGATGGCCATAAGGAATTCCAGACCAATATTTCTTCTGCGGTTTATTCTATGTTTTATATATTATCT
AAATATATGTATATGCTGTGTCATACTCATAATCTGGAAATGAATAAAGTGATATATTCTGGTTTGTAAAAAAA
AAA

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FIGURE 1176

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPF
LVMIKKNLKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLDDGWNQIQFNLLDFTRRAYGTNYIE
TLRVQIHANCRIIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ

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FIGURE 1177

ACCCCATCCCCACTCCTATACCGGTCCTCCATTTTGGTGCCTGCAAAGCTCTGGGAAAGAATCCCGGGAAACGA
AAAATGGTGGGTTTGGGGGAAGGGAGGTAAGGGGAGAAAGCTGGAGGGAGGGGCTTTAATTGGAGGCCCCGTAGA
GGACGCGCGGAACCTTAAGGTGGGAAAAACGAAATTAAAAAATCCTTTGATATCAGGGCTCTGAATCCTGCTG
GTCAGAGCACCAAGCATTTCAGTCTCTCTCCTTGCCTTTGTCTTACTTGTGTTCAAAGAAAAACAACCAGAAAAAA
AAAATCTCATCATGGCAAATATTCACCAGGAAAACGAAGAGATGGAGCAGCCTATGCAGAATGGAGAGGAAGACC
GCCCTTTGGGAGGAGGTGAAGGCCACCAGCCTGCAGGAAATCGACGGGGACAGGCTCGCCGACTTGCCCTAATT
TTCGATGGGCCATACCCAATAGGCAGATCAATGATGGGATGGGTGGAGATGGAGATGATATGGAAATATTCATGG
AGGAGATGAGAGAAATCAGAAGAAAACCTAGGGAGCTGCAGTTGAGGAATTGTCTGCGTATCCTTATGGGGGAGC
TCTCTAATCACCATGACCATCATGATGAATTTGCCTTATGCCTTGACTCCTGCCATTTATCATGAGATTAATAC
TGTGATTCCCGCTGTTTTCTTTTCTTTGCATTTTCTTAATATGCCTTTACTGATCCGTTTGCTGTGAACCCTAT
GTTATTTCCATGTGTCAAGTGGGTCTTGTGTTGCCAGCTTCTATTTGAAGATTGCCTTTGCACTCAGTGTAAGTT
TCTGTCAGCAGTAGTTTCACCCATTTGCATGGAAAAATTTAAAGCTAATAAAGCAATTTAAAAAGC

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FIGURE 1178

MANIHQENEEMEOPMONGEEDRPLGGGEGHQPAGNRRGQARRLAPNFRWAIPNRQINDGMGGDGDDEMEIFMEEMR
EIRRKLELQLRNCLRIIMGELSNHHDHDEFCLMP

1309/2682
FIGURE 1179

GACATGGAGCTGTTCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCAACAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGC GGTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGTCTCCAGCGGGCAGTAACCTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGGCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTIGCCGGTGGAAGGGGGCTTCTGGGCCTGCTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1180

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLRECPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAVALLPFLEVTKAEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPITVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

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FIGURE 1181

CGGCGACTGACCGTGGTTCGTGGGCGGACGGCGGCTTGCAGCGTGGAGGAGCTGGGGTCGCTGTGGGTGCGGAAGC
AGAGCCCCGGGACGTGCGCGCTTGGTGCACGATCCTGAAGGGGAGCTCCGAGGGGCCCGGGTCGCCAGGGCTGCTG
CGGCCATTCCCGAGCCCCGGCGCGGGGCCGCGAGATACTGGTTTAGGCCGTCCAGGGCTCCGGGCGCACCCGG
TGGCCGCTGCTGCAGCGGAGGGAGCGCGCGGGGCTCGGAGACAGCGTTTCTCCCGAAGTCTTCCTCG
GGCAGCAGGTGGGAAGTGGGAGCCGAGCGGCAGCTGGCAGCGTTCTCTCCGAGGTGGGCACCATGCGCCCTGC
AGCCCTGCGCGGGGCCCTGCTGGGCTGCCTCTGCCTGGCGTTGCTTTGCCTGGGCGGTGCGGACAAGCGCCTGCG
TGACAACCATGAGTGGAAAACTAATTATGGTTTCAGCACTGGCCTGAGACAGTATGCGAGAAAATTCAAACGA
CTGTAGAGACCCTCCGATTACTGGACAATACATGGACTATGGCCCGATAAAAGTGAAGGATGTAATAGATCGTG
GCCCTTCAATTTAGAAGAGATTAAGGATCTTTTGCCAGAAATGAGGGCATACTGGCCTGACGTAATCACTCGTT
TCCCAATCGCAGCCGCTTCTGGAAGCATGAGTGGGAAAAGCATGGGACCTGCGCCGCCAGGTGGATGCGCTCAA
CTCCAGAGAAGTACTTTGGCAGAAGCCTGGAACCTCTACAGGGAGCTGGACCTCAACAGTGTGCTTCTAAAATT
GGGGATAAAACCATCCATCAATTACTACCAAGTTGCAGATTTTAAAGATGCCCTTGCCAGAGTATATGGAGTGAT
ACCCAAAATCCAGTGCCTTCCACCAAGCCAGGATGAGGAAGTACAGACAATTGGTCAGATAGAACTGTGCCTCAC
TAAGCAAGACCAGCAGCTGCAAACTGCACCGAGCCGGGGGAGCAGCCGTCCCCAAGCAGGAAGTCTGGCTGGC
AAATGGGGCCCGGAGAGCCGGGTCTGAGAGTCTGTGAAGATGGCCAGTCTTCTATCCCCACCTAAAAGAC
CAAGCATTGATGCCCAAGTTTGGAAATATTCTGTTTTAAAAAGCAAGAGAAATTCACAACTGCAG

1312/2682
FIGURE 1182

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPDYWTIHGLWPKSEGC
NRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFWKHEWEKHGTCAAQVDALNSQKKYFGRSLELYRELDLSV
LLKLGIKPSINYYQVADFKDALARVYGVIPKIQCLPPSQDEEVQTIGQIELCLTKQDQQLQNCTEPGEQSPKQE
VWLANGAAESRGLRVCEDGPVFYPPPKKTKH

1313/2682
FIGURE 1183

GAATTCCGAGCTTTTTATTCCCTAAGAGGAGAAAAATCAGTAACGGGAGAGCAGGAGGATGTCCAGAAGAAATTC
ATCCCTTGCTCTCGCCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCCTCTAAAAGCAGTTTAGAGTGTTAAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCCCTAAGAGGAGAAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGC
TGGTTCTCTGGGATATAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTAGTCTATACATCAGATTTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTCAATAAACCTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTA
TAGCTTTTTTAACAACATTGGAAAGGATCCTTCCTGAGCGTTTTCTGGCAGTTTTTAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATAGCACCTAGTTTTCTGAAAACGATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAATTTTAAATGTTTGAACCTCTGTTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTTGATTGCACTTAAATTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTACAAATGAATATCATGAACTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

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FIGURE 1184

MKFLLDILLLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLKSKLVLWDINKHGLEE
TAAKCKGLGAKVHTFVVDSCNREDIYSSAKKVKAIEIGDVSILVNNAGVVYTSDLFATQDPQIEKTFEVNVLAHFW
TTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKTLTDELAALQITGVKTTCLCPNFVNTGF
IKNPSTSLGPTLEPEEVVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKRKISVKFDAVIGYKMQ

[illegible]

1316/2682
FIGURE 1186

MLESSGCKALKEGVLEKRS DGLLQLWKKKCCILTEGLLLIPPKQLQHQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKEHF SNMKTVD CVERKGKMYFTV VMAEGKEIDFRCPDQG WNAEITLQMVQYKNRQAILAV
KSTROKQQHLVQQQPPSQPQPQLQPQPQPQPQPQPQSQPQPQPQPKPQPQLHPYPHPHPHPHSHPHSHPH
PHPHPHPHQIPHPHPQPHSQPHGHRLLRSTNSA

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FIGURE 1187

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAAGTTCTTGGATCTGCGGGTTATGCGCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACCTTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAGACCAAGAGGTCCGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTAAACGAAGGACATAGTTTTAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATAATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTGCCAGGAAGTATGTTTATATCTTACCTGATATCACTAAAGATGAACCTCTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATCCCTTATTGCATTTTCCTTATGTATAATTTTCC
AGATGGTGTGTTACTTTTCAGTGTACTCATATGTCTCATTTCATCTAAAATTAAATGGCAGGAAACAAGGACT
GCATAGAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1188

MAGPLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQGRTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNNGGVTTAFYDPRSLDIVCKPVPFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPQRQIFFGLAPGWVNMADKKILKPTDENLLKYYTS

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FIGURE 1189

GGTATCGATAAGCTTGATATCGAATTCCGGCACGAGGCCGGGGCCCGGGGGCTGCTGCGGGGCGATCGGGCCGGGC
CGCTGCCGCGCCATGGACTCCCGTGTCCAGCCTGAGTTCCAGCCTCACTGAGTGGCCACCCCAAGTGCTGCCA
GCCGAGGAAGCCCCAGCACTGACC**ATGT**CTATTATGGACCACAGCCCCACCACGGGCGTGGTCACAGTCATTGT
CATCCTCATTGCCATCGCGGCCCTGGGGGCCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAG
CCAGTCAGAGGACGAGGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCCTTCCTGCTGGTGCACTATTTCGGC
CAAGGGACCGTGCGTGGAGAGAAAGGCCAAGCTGATGACTCCCAACGGCCCGGAAGTCCACGGCT**TGAG**CCAGGAT
GCAAGGCTCCTGGTCCTGTTTGCAGCCGGCCAAGAGGCGCTGGGAGGGGCAAAACCATACGGATGCGTGCTGTC
TGAGAGGAAGGGCTGACACTTGCTGGCATGGCCTCTGCGGGCTTCGTCATCGCATGCACTGATGCCGGGGACCT
GGCTGTCTGGGCTTCCCTCGGCCTCCAGGTGAGGCTGCCATTGCAGGCACTGGGCAGGCTGACCTTGCTGG
GGCTCAAGGCCCTGTAGCGCTTTTGTTACTTGAATGTCTAGCTGAGCCTGTTTTTATGGAGCTACTACTGTAAT
GCGTGAATAACAAACCTGTGAAGTGAATAGGCCCTGGAAGCACGTGCTTAAGCCCTTTTGCTGATTTTTAA
AAATATCATCTAGCGCACACGGGACTGGTATTCTGGCTGTACTAATGACAAGCTGAGTCAAGACCCTGGAGGGTC
ATAGGCTTGTAAGGCCACGCCACACTCGGCAGGGGTCTCTCATGTGTGTCCATCTGCGTGATGTCAAGGAAG
TGAGATGCCAATTGGGGTCTTGAGGCTGACCAGTTGGGGTGCTTGGGTGATCTCTGCTTCGTAGTCATGGGTG
GAAGAAAACCCACACCYCYMRMRCCCTCCGTTCTTCTGCATAGACTCACTTGTTAAATAGCAGTTCTGTTGAG
AGTGGAGTTACTGCAGGGAAGCTACCGGACCTGCCCTGGGAGCCAGTGAAGGGCGAGTCAGGGCACGCGTCTGGA
GGCTGCCAGCGTCTTGTAGCAGAGCAGTTTCTTGCCGCTTGGGTCTTCAGCACGCCAAGCCCCCACCAACCTT
CCACCCCGAGTGAAGGCTTCGCTGAAATTGCTTTGGTCTCATAGAGCCTGTGGTGGCTACTTTTGGTCTGAAA
CCCCTTGCCCCAGGAAAGAGAAAAGTTGTATGTTTTGTGTTGGTGTTCCTATTTTTCTGCACTGGAGGGGAGG
GGACTGTTGAGGTTCTGTCTTTTTCTTCTTTCTTCTTCCCTCTTCACATCACTTGGCTTCCTTTCTCTCTGA
TGACCGTCCGCTATGGGGTCTGACTTCACCTTCTCAGCGGGTCTCCAGTCCCTGACCCAGCTCTAAAGGCA
CTTAGGACCCAGGGAACATTTCTCACGTGCACATTCCCTAAGAGCCACCAGACTGCTTCCTGCCAGCCTGTGCT
TGCGGCAGGGAGCCGGGGCAGGGCAGAGGTGACTTGAAAGTTCAAGACTTGACTCTCCACAGGTGGTGAGCTGG
TGCTCTCTGGTGAGCTAGTGTCTCCACAGMCWVCTCCAAAGGCTCCCTATGTACATTTGAGTGAGCTCACTT
TGATTTTTAATCCACCACAAGCACATACTAATTTTTATTATGATTCAAATGTGACTCGTGCCCTGCCCATCCCTG
TAATAGATGGAAGGTGAGCCCCGCTTAACCACAGAGCACTGGCCCTTCATGGCTGAGCTCAGAGCTCTGGCCCTC
CTGCTCAGACTAAAGGCACCTCTCTGGCCTCACCAAGCCTCTTCTAAAAACCATGTTGAATGAATCCACGTTT
TGGAACCCCGAGGCGGGGAGAAGTAGGGAGCTGTTGTTTTAAGCAGCATACACCTAAATTGGGGGTTTAAACATTA
AGTAGGAGCTTGGGGTGAAGAGGGACAGCCGCTGGGCCACCTGAGCAGAAGGTGGTAATGAAACACCTCAGCT
GGGCTCTTGGGAGACCTTAGGAAGCAGGAGAGGCAACACCTCTGGCTACTGATGGTGTTGGCAAGTTTCAAGAGG
TGGTGGTGGGGTAGGCGTGATGTGAGCAGAAGCCCTGCAGGCTGGGTGGGCAGGACACGTGGTGGGGCCACTGA
AACCAGGCCTAGGAGGGGAGAACAAGTTCCAAAGGTGCCGACTGGAAGAAGGGGGTAAAGTTTGCTTTGGTGAGT
GAGAAAAGGCTGGGGCGTGTGATCCATCCCTCACGTTTTCAGAACTTCCAGGCTTTCTACCTCGACTCTCACCAC
AGCCAGCACATACACCTAGGCTGTTTTTCTCTCCACACCTGAGGGACGCAGCAACAGCTAGGATCTGCATTT
TCAGGTTCCGAGCCTGACCCCTGGAAGTACCAGCGCTCGATTGTGAGCCTTGGCCTGGGGTTTTGACCTTGCCA
GTGAAGTTTCGGTTTTGAAGTGATTAAATGTCACTTCCTCATCAGTTTCACTTCTGGAGGTTTTCTTATCCTACT
CCCTGGTGCCAGGGACGTACCTGGGAGTTTTGAATCAGGCCCATTTGAGCGTGGCAGCCGTGTTGGGTGAAGGTCC
GGGGCTCGGTGAGGCACTGGGGGGTTTTTCGGGAGGAAAATGAAAATGCTTCTAGAATGAGTGAACCATCATA
GCTCTCACTGTTTTTTCAATAGCTACTTTTTTAGCAGACACCAGAGCCACACTCAAAATGGCTAAGTAGGTTATG
ACCTCTCTGGATTATTTTTGAATGCCCAACTGTGCAATTCAAGTTTTCTGAACATAAAGAAATTAAGCATTCA
TCCTTCGTATCACTGCAGAAGCAACAGTGGGGGCACAGGGAGGGAACCTTTGACACTGAGCCACTAAAATATGGA
CTAATTTTTTGACAAATCTTCAAACGGACTGTGCTACTGTATTGTCTCAAAGCTACCAAGTTTGTGCAATAAG
TGGAAGGGATGTCATCCTTCTTCAATAAATGCTGAATGACATTCAAGCTGATTTCTAGACCACTGAGAAAAATCT
TTATTTACAATAAATTTCAATAAATTTGCATAAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MSIMDHSPTTGVVTVIVILIAIAALGALILGCWCYLRQLRISQSEDEESIVGDGETKEPFLVQYSAGPCVERK
AKLMTPNGPEVHG

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FIGURE 1191

GGAGCTCTGGAGGCGGGGCTTCGAGCGTGGCTCGTGGGTTTTCCGTGAAGTCGCGGTGCAGCGGTGGGCGGCATG

TCTGTGGCCGGTGGGGAGATTTCGTGGGGACACGGGGGGAGAGGACACTGCTGCTCCCGGCCGGTTTCAGCTTCAGC
CCGGAGCCACGCTCGAGGACATCCGCCGCCTCCATGCTGAGTTTGCTGCGGAACGAGACTGGGAACAGTTCCAT
CAGCCTCGGAATCTCCTCCTGGCCTTGGTTGGGGAAAGTGGGGGAGCTGGCAGAACTCTTTCAGTGGAACCCGAT
GGGGAACCTGGCCCCCAAGGCTGGTCCCCCAGGGAACGGGCAGCCCTTCAAGAGGAGCTTAGTGACGTCCTCATC
TACCTGGTGGCATTAGCAGCCCGCTGCCGTGTGGATCTGCCGCTAGCAGTGCTCTCCAAAATGGACATCAACCGG
CGACGCTACCCAGCCCATCTGGCCCCGAGCTCTTCCCGCAAGTATACAGAATTGCCCCATGGGGCCATCTCTGAA
GACCAGGCTGTGGGGCCTGCGGACATTCCCTGTGACTCCACAGGCCAGACCTCAACCTAGAAAGATGGCCACAGG
ACTTGCAACTCAGGGTGGTGTCTGAAGAGCAGAGAGTGGCCTGGCCCTGGAGCCTTTTTCTAGTCTTTTCAGAAAT
AGATCATGGGCCTGAGGCCTCCACTTCTTGAGGTCTGAGGCCAGCAGCCTCTAGAAGGTAGCCTCCTGGTGT
GTTCTCCAGTAAATGGTTTTGGGCGATAACTTCTAGATTATTCCTGGATGGCCAGGGAGGCTCTCTGTCTCAG
CAGGTGATGACGGGGGTACCAGGGGTGCCTCTGAGACCCATTCTCGTGTTCCTGTTGTACCTTTTGCCTGCAG
GGCAGAGAGATCTGGTTTCTAGCAAATTCAGTAGGATGTCATGTAAGTTCCTTCCCCCTCTTAGAGATTGAAG
GCTGTAAGAGTCCAGATGGTGGAGCCAGGCTGTCTGGGTTCAAATGCCATCTTTGACACTTGAAGCTAAATGAC
ATTACTCAAATTAATCGTTCTGCACTTCAGCTTCCTTGTCTATCAAATAAAAAGAATAGTACCTGCCCAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1192

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGELAEWFQWKT
DGEPPQGWSRERAAEQEELSDVLIYLVALAARCRVDLPLAVLSKMDINRRYPAPHLARSSSRKYTELPHGAIS
EDQAVGPADIPCDSTGQTST

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FIGURE 1193

GGCACGAGGCAGAGGGCGGTTCTGGAGTTACAGCCGCGTTTGGCGGGACGTGTCTGCGGGCAGTCCTGGCCTGT
TGAGCTTGTCCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCCGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCCTCCTGGGGCCTTCTGCGCTTGAAGTGCAGTGGCGGGCGGCACGGTCTCCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATGGCCACGCGCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGACATACT
GTGGCGCGTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGTCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTGTTTTCATCTATACAGTGGCTGTCTGATTCTTTCAGTGACCTGTATAG
TTCCTATGTAATCTTTTACTTCTGCTGTCTGTCAGTGGTAATAATAATAAGTATTTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCAGACTAGCTCTGATAGGGAAGATCATTATCCTCAGCAACTCATGCA
CTCATTATTCATGCTGCAATGGGAATGGTGATGGCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCCTGCACTGGTACTAACAGCCTTGTATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGGAGCATTATGGGCIATAGCTATAGCCTCCTGTATTTTGTAAACAACATGAACATCTCT
TCCATTTCCCATCATAAGCAATACAAGTTCTTGGCTTTTAGGAGATCTCTGCTCTTATTAGTTAAACACAGTTG
TGTGAATCACTGTTTCTGGTTAGAAATTTCTGCATTTTATATTATTTTCTTGGCTATATTTCCCAAAGCTTGGAT
TAGCAGTGCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTTCTCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCAACCACCATTGTCAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTAAATAGCAATCCTCCCCCATCAAAAGTATTTAGCCTTGCAGGACCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAAGTTTTAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAAG
GGAGTGTTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGTCTTCATCTTACCCAGTGGAACTAAGAAATTAAATTTCTCCAGAAGAACTGCTTTTTCAGACACCAAATC
TAGCCAGATGCCTCGGCCCTCAGTGCCACCATTAGTTAAAACATCACTGTTTTCTTCAAATATCTACACCTGA
TGTTGTGAGCCCATTTGGGACCCCATTTGGCTCTAGTGTAAATGAATCGGATGGCTGGAATTTTGTATGTAAACAC
CTGCTATGGGTACCGCAAAGTCCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCCTTCTCCATCTACCTCTATTAGTGTGAGGGTAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGATTTCAGAATAAACGTGAACAGATTAAGAATTTCTTGTCAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCTCCATTAGGCTGTTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTGCGCACTTAGTAGCAGCATCATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATACTTTGTTGACACTGCAAGAGGCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACACCCCG
GATTTTCAGGAAGCCTTGTGGACACTTCATATAAAACATTAAGATTGCAATTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAATAGTTAAGTAATATAAACTGTGTTTATTACACTGCTGATACAACCTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCCTTTGTGCTGGTGGTGTGCT
TTGAAAACATACTTTAATGGGAGAAATCATGGAAAGAAATTCTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAA

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FIGURE 1194

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVFLP ICTTVFIIFSRIDL FHP IQWLSDFS DLYSSYVIFYFL
LLSVVIIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFPPIIQQYKFLRFRRSLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLD TVSGLLNLSLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRREQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAAATNGRVSSSY PVEPKLNSPEETA FQTPKSSQMPRPSVPPLVKTSLSFSSKLSTPDVVS PFGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRG PRLWTSASDQOMTEFSNPSPSTISISAEGKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMH IWALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTTGEHLNAVQASAEHQKRLQQFLEFKE

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FIGURE 1195

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCCTTCAGCAGACTCAACTATCATGGACATTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCGAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGCC

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FIGURE 1196

MSPSGRLCLLTIVGLILPTRGQTLKDTTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPTPTWPADETPQPQTQT
QQLEGTGGLVTDPETHKSTKAAHPTDDTTTLSEKPSSTDVQTDQTLKPSGFHEDDPFFYDEHTLRKRGLLVA
AVLFITGIIILTSGKCRQLSRLCRNRCR

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FIGURE 1197

TGGCGGCGGCGGCGGCGGTTGTCCCGGCTGTGCCGTTGGTGTGGCCCGTCAGCCCGGTACACAGCGCCCGG
CCGCGTCGAGCCAGTACAGCCAAGCCGCTGCGGCGGGGTCCGGCGGGGCGGCGCGCAGACGGAGGGCGGCG
GCCGCGGCCAGGCGGCCCCGTGGGACCGGGGCCCCGGCGCAGCGCTGCCCGGCTCCCGGCCCTGCCGGCTCC
TCCCTTGGCGCGCGGCCATGGCGGCCAGCGCGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGAC
ATGACCGGCCTCCCGCGCAACCGAAAGTGCTTCGACTGCGACCAGCGCGGCCCCACCTACGTTAACATGACGGTC
GGCTCCTTCGTGTACCTCCTGCTCCGGCAGCCTGCGAGGATTAAATCCACCACACAGGGTGAAATCTATCTCC
ATGACAACATTACACAACAGGAAATGAATTCTTACAAAAACATGGAAATGAAGTCTGTAAACAGATTTGGCTA
GGATTATTTGATGATAGATCTTCAGCAATTCAGACTTCAGGGATCCACAAAAAGTGAAAGAGTTTCTACAAGAA
AAGTATGAAAAGAAAAGATGGTATGTCCCGCCAGAACAAGCCAAAGTCGTGGCATCAGTTCATGCATCTATTTC
GGTCTCTGCCAGTAGCACAAGCAGCACACCTGAGGTCAAACCACTGAAATCTCTTTTAGGGGATTCTGCACCA
ACACTGCACCTTAAATAAGGGCACACCTAGTCAGTCCCCAGTTGTAGGTCGTTCTCAAGGGCAGCAGCAGGAGAAG
AAGCAATTTGACCTTTTAAGTGATCTCGGCTCAGACATCTTTGCTGCTCCAGCTCCTCAGTCAACAGCTACAGCC
AATTTTGCTAACCTTTGCACATTTCAACAGTCATGCAGCTCAGAATTCGCAAATGCAGATTTTGCAAACCTTTGAT
GCATTTGGACAGTCTAGTGGTTTCAGTAATTTTGGAGGTTTCCCCACAGCAAGTCACTCTCCTTTTACGCCCCAA
ACTACAGGTGGAAGTGCTGCATCAGTAAATGCTAATTTTGTCTATTTTGATAACTTCCCCAAATCCTCCAGTGCT
GATTTTGAACCTTCAATACTTCCCAGAGTCATCAAACAGCATCAGCTGTTAGTAAAGTTTCAACGAACAAAGCT
GGTTTACAGACTGCAGACAAATATGCAGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGAT
CAGGGAAGTGCTTTGGGACCACAGGTAAGCTCCTGTTGGTTCTGTGGTTTCAGTTCCCAGTCAGTCAAGTGCA
TCTTCAGACAAGTATGCAGCTCTGGCAGAACTAGACAGCGTTTTCAGTTCTGCAGCCACCTCCAGTAATGCGTAT
ACTTCCACAAGTAATGCTAGCAGCAATGTTTTTGAACAGTGCCAGTGGTTGCTTCTGCACAGACACAGCCTGCT
TCATCAAGTGCTGCTCCATTTGGACGTACGCCTTCCACAAATCCATTTGTTGCTGCTGCTGGTCTCTGTG
GCATCTTCTACAAACCCATTTTCAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCCATGAGC
ATGCCCCAGGGATTCCGGCACTCCTGCTCCCTACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTTCAGCAGCCTGCC
TTTCCAGCCCAAGCAGCTTTCCCTCAACAGACAGCTTTTTCTCAACAGCCCAATGGTGCAGGTTTTCAGCAGCTTT
GGACAAACAAAGCCAGTAGTAACCCCTTTTGGTCAAGTTGCAGCTGCTGGAGTATCTAGTAATCCTTTTATGACT
GGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCTTATAGCCTTATATAGACAATTTA
CTGGAACGAACCTTTTATGTGGTCACATTACATCTCTCCACCTCTGCACTGTTGTCTTGTCTTCTACTGATCTTAGC
TTTAAACACAAGAGAAGTCTTTAAAAAGCCTGCATTGTGTATTAAACACCAGGTAATATGTGCAAAACCGAGGGC
TCCAGTAACACCTTCTAACCTGTGAATTGGCAGAAAAGGGTAGCGGTATCATGTATATTTAAATTTGGCTAATATT
AAGTTATTGCAGATACCACATTCAATTATGCTGCAGTACTGTACATAATTTTCTTAGAAATTAGCTATTTGTGCAT
ATCAGTATTTGTAACCTTTAACACATTGTTATGTGAGAAATGTTACTGGGGAAATAGATCAGCCACTTTTAAGGTG
CTGTATATATCTTGAATGAATGACCTAAAATCATTTTAACCATGCTACTGGAAAGTAACAGAGTCAAAATTG
GAAGGTTTTATTCTTGAATTTTCTTTCTAAAGAGCTCTTCTATTTATACATGCCTAAATCTTTTAAAA
TGTAGAGGGATACCTGTCTGCATAATAAGCTGATCATGTTTTGCTACAGTTTGCAGGTGAAAAAAATAAATAT
TATAAATAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 1198

MAASAKRKQEEKHLKMLRDMTGLPRNRKCFDCDQRGPTYVNMTVGSFVCTSCSGSLRGLNPPHRVKSISMTTFTQ
QEIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVHASISGSSASS
TSSTPEVKPLKSLLGDSAPTLHLNKGTPSQSPVVGSRQCGQEQEKQFDLLSDLGSDIFAAPAPQSTATANFANFA
HFNSHAAQNSANADFANFADFQSSGSSNFGGFPTASHSPFQPQTGGSAASVNAFAHFDNFPKSSSADFGTN
TSQSHQTASAVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQSGFGTTGKAPVGSVSVPSQSSASSDKYA
ALAE LDSVFSSAATSSNAYTSTSNASSNVFGTVPVVASAQTPASSSVPPFGRTPTSTNPFVAAAGPSVASSTNP
FQTNARGATAATFGTASMSMTGFGTPAPYSLPTSFSGSFQQPAFPAQAAPFPQTAFSQQPNGAGFAAFGQTKPV
VTPFGQVAAAGVSSNPFMTGAPTGQFPTGSSSTNPFL

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FIGURE 1199

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCCAGCGCGGAGT
CGGGCGGGGTAGGGCGCGTCGCGTGCGTGACGTATCCAGCGGCGCCATCGGAGGCTCCAGTGGCCTTGACCT
CCCGCGTCGTGTAGGCCTGCGCGGCGATGCTGACGTTTCGTCCGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCG
GCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGG
GTCTCCCGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTGCG
AGTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGCGGCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCA
GGCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGA
GAGCCGAGGTGCGGGGCGGTGGCGAAAGCCTTTGGCCGAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATC
CGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCACAAGTTACTACTACATGCTGCCCA
TGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACT
CCCTAGAGCTGCCCCACGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTAC
TCCTCGTGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACT
TGATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTGC
CCTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCG
ACTTCCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTC
TTCTGAGCCAGGCCGAGCCCTGGACGACTTGGGAGCCTCAGGCCACGCCCCACCTTCGAGGAAGGTGTCACCT
GGCCCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGG
AGAGCCCAGACGGGGCTTCTTGATCCATTCCCTCTTTTGTTTTTTAAATAAATTGTATTTTGG

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FIGURE 1200

MLQFVRAGARAWLRPTGSQGLSSLAEEAARATENPEQVASEGLPEPVLRKVELPVPTHRRPVQAWVESLRGFEQE
RVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEVRRGGGKPLAERHWAGPAWQHPLSALARRR
CCPWPPGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYRRWGDSVLLVDLTTEE
MPQSIVEATSRLKTFNLIPAVGLNVHSMKQHQLVLTLPVAFLEDKLLWQDSRYRPLYPFSLPYSDFPRPLPHA
TQGAATPYHC

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FIGURE 1201

TTTTTTTTTTTTTTGGAGTTATACCTTTGGTTCTGTTTTTACCCTTTATTTGGAATACAGTGCAACATTACAGT
TTTGGATCATTAAATGAATGGACTTGGTGATATAGTACTAACAAGCACGACCTGAATTCTGGGAGTAAGTGGTTT
TCTAGTTTCATGGGGGAGGAAAACAGATACGTGCAAGATCTCCAGAGGAGAACAGAACCATGGTACTCAGTGAGTC
ACCAAAGGGCTTTGGCTTCAACTCACTAATGGCTGGAACAAGTGCCAGTCTTGGTCAGCCATCCAGGATTTTCAT
CACAGCAAAATCAAAATCTCCAATTTTTCAAATAATTGTAGGTAGAAGAGAGAGAATAACTCCAACTGTCTTAT
AAAAGGATCTAGATGACTACTGAAGTGTCTCCATTTCATGAGTTGGCAAAATCTTCAGAGTGACTGTTGGAGCAA
GGAGCCTTTTCATGTGCTCCAGTTATTATATAGTGCATAGAGGCTGGTAAGTGTTAGTCCTGTGACACCACCTCG
TGCTATCCCTCGAAGACCACCTTTGGACTCTGGATGGGTCTCCAAATATTAACCTTGAAGATTAGTGACGGCCA
GGCATGGTGGCTCACACATGTAATCCAGCACCTTTGGGAGGCTGAGGCAGGCTTGAGCTCAGGAGTTTGAGAACA
ACCTAGGCAACACGGCAAAACCCTGTCTCTGCAAAAAATAGAAAAATTAGCTTAGTGGGGTGGCATGCGCCTGTG
GTCCAGCTATTTGGGAGGCTGAGGTAGGAGGATCGCTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATT
ACACCCTGCACTCCAGCCTGGGTGACAGAGTGAGAAAGAAAAAATGTGGTAAGATAGCTATAATCACACT
TTGAGTTAGATGCTGGTGACCACCCCCACTTCATGCACTGACGCATCAATCTCCACAATTAACCAAGTGAG
TGACACCTAGCATCATGCTAGTTGAAAAGAACTCAAGAATTACAGATATTGAACTACCTGCTTGATAACAAGTGA
ACAATTTTACATGTGGCAAAAGATTAGCAACAAGGATTTCACTTGCAATGGAGAAACAAAAATATTTCAATCGGT
TACTTAAAAATAGTCCCCAAGTGTAATAAAAGGAAGCTACAGATAAATTTCTCAAAATAAAAAGGCCTAACTGC
TTATGGTTATAAAATGTTAGTCTTACAAACGTAATGTGGCAAAGAGAAACCAAGCTACAAAACCTCCTCAGGAATG
GGGGTGCCCAAGCAGCTTTTTTAAAAAATGTGAAGTCTCAAGCAGCTCCATGAGTAGGGATCATAAACTTCAGG
TAGCCATCTTTGTACCTAGAGTGATTTGTTCCAAGTCATGTGTTAGGGAGACAGAGGTAGAGCGGAGTTGTGGG
GGTGGCTAGAGGCCCTTTTAGCTCCGTGCTGTCAATTCTGTGACATTCAGTGATGTTGCTGAGCTACAACATTT
CAGAATAACCATTTCTGCAACGAGCGTCTACCAGATGGCTTCAGCTGATGGATTAAAGGGCCACTCCCCCTCC
AGGAATCTCTCCAGTCTGAAGACTTCTGATAGCTGACCTGCTTACGTTCTTCTTAGTTTTCCAATGCTAAGTGTC
ATAATTATCTCTCTCAAACAGAACTGCAGACATTATCTATAAACAG

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FIGURE 1202

MVLSESPKGFNFNSLMAGTSASLGQPSRIFITANQNLQFFKLIVGRRERITPNCLIKGR

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FIGURE 1203

GCAGAGGTGCGGCCGGGGAGGCGCGCGGAGGCTGGAGCTGGAGGCGCGGCCGGGTGAGCTGAGAACCATGTGTG
CTCAGTATTGCATCTCCTTTTGCTGATGTTGAAAAAGCTCATATCAACATTGAGATTCTATCCACCTCACACCAG
TGCTAACAAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTTCTTCAAATGTGAACCTCTCCAGAAAAACG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTCAGAAAGCTTGGTTCCTGATGCTTTAGAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCTTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAAGCTTGAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTTGGTGG
ATGCACTGGTGGTACCTGTAGGTGGAGGAGGAATGCTTGTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAACCTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTTCAAAGCTGTTTCCC
CAGAAGTAAAGAACATTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTTTTAATTTTACAGAAAAGGAAATGGTGGGAATTCAGTGT
TTTATGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTTCTTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAAAAACTTTTATACTTAAGTACATTTTGTCAA
GGCTAAAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAAATAAAGTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCAGGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTCAAGCCAGGGTACTGGTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAGACTCGTTTATACAGGTTTCATCAGTACTGTGCTTGAGATTTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAAACAGTCGGTCAAATTAAGTAGAAAAATTTAAAGCAATGA
CTTCCAACCCAACAGTCATTTAGCAACACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTCTTGATATGTCCTCTCCGGCCCCACTTCGTTCTCAGTTCCTGTTTAAACCACAGCACATCCTCTTA
GAATCAAACACATTAAAGACCAAGATGAAACATTTACCCACAATAAGTAAACCCAACCTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTCATAACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACTCTCTTGATGACCATTCTGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAAGGACAAAAGCAAAGAAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCACACTTAACCTTGTCATAGGTTCTTGAAAAGTGTACTTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTTGAGGAC
TGGCTATACACTGTTTTCAGTAAAAGTTGGAGTTTTTATTGTTCTATTAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAACCATCATTACCTTCTCCATACCATTGGCTCCCAAATTTAAATAACAAGAGAAAACGGTGTTCAT
CT

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FIGURE 1204

MCAQYCISFADVEKAHINIRDSIHLPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVA AVL SQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1205

CACGAGGGGGACCCGGGCGCGTGCGGCGCGGGATGGAGGGCGCCAAGGGGCGGGGAGCGGGCGTGCGTGTTGT
GCGAGTGCGAATGCGAGGGAGGCCGGCCTTGAGTGAAACCGGAGCTACAAAGAAGGGGAGAGTCCGGGAGCGGGA
GGGCGCGAGGGAGGAGCGGCGGCTCCGGGGCAGCTCCGACGCCCTCCGCGGGGAAGGAGCCCCCGCGGTGCCGC
CGAGGCCCGACGCGGGGCCGCCCTCGGCTCGCCGCCCGCGCCCGCGCCGCTGGGAATGATGAAGAAGAACA
ATTCCGCCAAGCGGGGACCTCAGGATGGAACCAGCAGCCTGCACCGCCCGAGAAGGTGGGTCCGGAAAT
TCTGCGGGAAGGGATTTTCAGGGAGATTTGAAAAAACCGCTATGTGGTGCTGAAAGGGGACCAGCTCTACATCT
CTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTTGACCTGAGTGACTATGAGAAGTGTGAAGAGC
TCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCAAGTTTACTCTTGCCCACTCCAAACAGCCCGTAACA
CGGCACCCAACCTGATCTTCTGCGCAGTGAGTCCAGAAGAGAAGGAATCGTGGATCAATGCCCTCAACTCTGCCA
TCACCCGAGCCAAGAACCGTATCTTGATGAGGTACCGTTGAGGAGGACAGCTATCTTGCCCATCCCACTCGAG
ACAGGGCAAAAATCCAGCACTCCGCGCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCT
CGGATGGGATGCTGACCTTGACTTGATCCAAGAGGAAGACCCTTCCCCTGAGGAACCAACCTCTTGCTGCTGAGA
GCTTTTCGGGTGACCTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGGCGGAGAGCGGACTCAGACCGCATCC
AGCCCTCCGCAGACCGGGCAAGCAGTCTCTCCCGACCTTGGGAAAAACAGACAAAGGGGCCACCTACACCCCCC
AGGCACCCAAGAAGTTGACGCCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCCTATCTCAGCGGGATG
CTGCCTCTGCCCCACCCCTCCAGCTGCGGGCTGAGGAACCCCCAACCCCTGCCCTCCCCAACCCGGGGCAGCTGT
CCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTTAGGGACTGGGAG
ATGGGAAGCGAAAGGCCAAGGACCCCCCTCGGTCTCCGCGGATTCTGAGTCAGAGCAGCTGCTGCTGGAGACGG
AACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAAGAGGGTGCTGCAGGAGGTCAGGGAGCTGAGAG
ACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCACCTCAGACAGACCACCCCGCACAGTCAGTACCGGA
AGAGCCTGATGTAGAGGGCAGGGTGGGGTCTGGAACCTGTGCGGTTGGACAGACTCTTATCTCCGTGTTGCTGGAT
AAAGCTTTTTTTATTACCTCAATCAAAAAAGAAAACAAAAATGAAAAAAAAAAAAA

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FIGURE 1206

MMKKNNsAKRGPDGNQQPAPPEKVGWVRKFCGKGIFREIWKNRYVVLKGDQLYISEKEVKDEKNIQEVFDLSY
EKCEELRKSKSRsKKNHskFTLAHskQPGNTAPNLIFLAVSPEEKESWINALNSAITRAKNRILDEVTVEEDSYL
AHPTRDRAKIQHSRRPPTRGHLMAVASTSTSDGMLTLDLIQEEDPSPEEPTSCAESFRVDLDKsVAQLAGSRRRA
DSDRIQPSADRASSLSRPWEKTDKGATYTPQAPKKLTPTTEKGRCASLEEILSQORDAASARTLQLRAEEPPTPALP
NPGQLSRIQDLVARKLEETQELLAEVQGLGDGKRKAKDPPRSPDSESEQLLLETERLLGEASSNWSQAKRVLQE
VRELRLYRQMDLQTPDshLRQTTPHSQYRKSLM

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FIGURE 1207

CCCCGCTGCATACGGTTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTTCATAAACATTACCAAATACATCGCA
TTAGACATTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG
ATTTCCCCAAATTGGATGATATTATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTCAACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAAATTTTACAGATTGTCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCCCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAAATGAAGGGAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCTTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCAGAGAAAAAGAAGT
TGAAAAATCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAAGACTCTGCTCCCCCGTCTCTGTGGCCCCGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATTAGTATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAACTGAAAA
AGACAAATAAGTAAAGCACTTGTTGCTTTGCTGAAACTATGGTTAACCTATATAGGTGTGGGAAATTTTGT
CACTGCATAATATTACAAATATTTTGGAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGAACCTGGGTTGTTTTTGTATGGAGAAAACTTATTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAATACGCTCTTAAATTATTTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAATAAACCTCCAGAAGAACTAAAAA
AAAAA

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FIGURE 1208

MAHYNFKKITVVP
SAKDFIDLTLSKT
QRKTPTVIHKHYQ
IHRIRHFYMRKV
KFTQQNYHDRLS
SQILTDFPKLDDI
HPFYADLMNILY
DKDHYKLALGQIN
IAKNLVDNVAKDY
VRLMKYGD
SLYRCKQLKRAAL
GRMCTVIK
RQKQSLEY
LEQVRQHLSRLPT
IDPNTRTLLLCGY
PNVGKSSFINKV
TRADVDPYAFTT
KSLFVGHMDYKYL
RWQVVDTPGI
LDHPLEDRNTIEM
QAITALAH
LRAAVLYVMDLSE
QCGHGLREQLELF
QNI
RPLFINKPLIVVANK
CDVKRIAELS
EDDQKIFTDLQSE
GFPVIETSTLTEE
GVIKVKTEACDRLL
AHRVETKMKG
NKNVNEVLNRLHLA
IPTRRDDKERPP
FIPEGVVAR
RRMETEESRKKRER
DLELEM
GDDYILD
LQKYWDL
MNLSEK
HDKIPEI
WEGHNIADYID
PAIMKKL
EELEKEEELRTA
AGEYDSVSESE
DEEMLEIRQLAK
QIREKKL
KILESKEKNTQ
GPRMPRTAKKV
QRTVLEKEMR
SLGVDMDDKDDA
HYAVQARRSR
SITRKRKREDS
APPSSVARSG
SCSRTPRDV
SGLRDV
KVMVKKAK
TMKNAQKKMN
RLGKKGEADRH
VFDMPKHLLSG
KRKAGKKDRR

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FIGURE 1209

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGGTGACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCAGATTGGAT
ATGTCCCTTCATATTTGATTGGATTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTGAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGACAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAACTTGATTCTACTAATGACAGATGAAACCATTGCT
AATGTGCCTATACGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGAT**TAA**CAC
AAACTCACATTGGTTCAGGTCTCAACGTTTCCAGGCTTACTCAGAGATTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGTGGTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTAATTTGAATGAGA
ATTGAAAACCTGATTCAAGTAAGTTTGAGTATCACAATGTTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCACCCAGCGCCATTTGTAAAGAGCAACTTTCCAGCAGTACATTTGAAGCACTTTTTA
ACAACATGAAACIATAAACCATATTTAAAAGCTCATCATGTTAAATTTTTATGTACTTTTCTGGAAGTACTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAA
AAAAA

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FIGURE 1210

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

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FIGURE 1211

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTTCGTTGTCGCCCCCTCCTCGTGGGAAGAATCGTTTGGT
CTCCTGCCGTGCCCCGGCCGGTGCTGCTGTGCGTGTGCTGCCCGCGCGGGTTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTGTCGGGGCCAGACGAATTGGAATCCCAGTCAGAAGTTCAGCCTGCCAC
TGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCTCATCCGTAAGTGTGAAGTGCAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTCTCTCATCTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGTACCTTTTTGCAGGCCAAAGGAGAACTGGTGGCAGTACACCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTCAGTTCTATCCTTGGATTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGACAGCCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGGCCGGGCACTGCTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTGTACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAGTCGACTGATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGGAGGCGCAAGTTGGTGATCCTAATTTCTTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTGCTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACAGTTGAATGACAATGAATATACCAAGTTTATTCTCTCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACTTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAACTGGCATGCATACCAACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAACAGAAAGGAGAACCAAAATGTCCT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTCGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTG
ATCATGAGCGCCTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAACCAAGAAAAGTGAAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAAACATTTTCAGGTGGCATTCTAA
GCATTTACCCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACCTGAGGCAAGCACTTCTTTATCACAGGTGTCTTGAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTCTAGTACACAGTCTATGCATTATTATATACATTTATTTTAGCCTAAAGT
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCCGATTTCTAATGTAATTGAAACATTTTCTA
GTTTGCCACACACTTGGAGACCGTAAGGGTTTTAGTTTGATCTACTCTTCTATTGAAGTTAAAAA
AAAAA

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FIGURE 1212

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSLDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPSFLNYLV
LRVAFSGATACVAHVVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTSLNDHNAQNERELERLKEHPKSEAKSVVK
QDRLLGLLMPFRAFQDVFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQOPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSLPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

CCATCGAGTACGACCGGGCTAGAGCAGTCTCTACGGAGAGTGTGCTGTCTACGGGACACCGAGCGCATCCGTCGGGCCGCGGAACAGCTCCAGATCGTTCTTCGGGCCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGCCGACCCCCAGATCCGCCAGTTTTCGGGCGTGCTGACCCGACAGCACTGAACACCCGCTGGCGACGGCTGGCGGCCGAGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC TGGCCAGCTCTCAGCCACCATTTTTCGAAAGGAAGGCTTGAGGGCTGGCCACAGCTTTTGACAGCTGCTTCAGC ACAGTACCCACAGCCCCACAGCCCAGAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC CCGAGGCCTTCCAACCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCCC TTGAGGCTTTGGATGAACTGTTGGAGTCAGAGGTGCCGCTCATCACCCCTACCTCTCTGAAGTCTTCACATTCT GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG TCAAAGTCAAGAGCAAGGCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCCTTTTCCCCATTGTGG CTGCTGAGCCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTAGAAGAGGAAGAGTTGGAGATTGAGCTGA TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCT GTCCCCAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCCTGG TGCTGGCCGCTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCACTGCTGCAGATTGTGT GCAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCCTGGGCCAGTTCTCAGAAAACC TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCCTCTG GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCCTAGGGCCCCAAGGTGCAGC CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC ACCTGCGGGAATTCCTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG TGCTGGCACGAGCAGTGGGGGAGCCCATGAGGCCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG ACCAGGTAGACGACGCTGACTTGCGGCGCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG GCCTGGCGCCCCACTTGGAACAGATCACCACGCTCATGTGCTGTCTACTGCGTTCCACCAGGGCATTGTGCCCTC AGTATGACGGGAGCAGCTCCTTCTTCTGTTTGACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCTTCTTCGATGAGAAGGAAG ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCTTCCATACATGGAAGTGTCTTTG AAGAAGTATTTAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTCACTTTT GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCCTCGGAACCCAAACACTGCTGCTTTGCAGGCTGCCCTGGCC GAGTCGTGCCATCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCC TGACAGGGGTGCTCCGCAGCTGTGGGACCCCTCACACTGAAGCCCCCTGGGCGCTCGCTGAGCTCTGTGGCGTGC TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG CTGAATACGACGCCATGTTGCTGGAGCACGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT CTTTGGCCCCATTCTTTGCGGGTTTCTTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA AGTCCTTTGCAGTGGGGACCTTGGCAGAGACTATTAGGGCCTGGGTGCTGCCCTCAGCCCAGTTTGTGTCTCGGC TGCTCCCTGTGCTGTTGAGCACCGCCCCAAGAGGCAGACCCCGAGGTGCGAAGCAATGCCATCTTCGGATGGGCG TGCTGGCAGAGCATGGGGGCCACCCTGCCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTTCCCTCTCTGG CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCCGCTGTTGATGGCCAGTCCCACCA GGAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA CCATTGGGCGCCTCTTCAGCTTCTGTACACAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCACCAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGT TCCTGGCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC AGGCTGTACTGGGCCTCTCTCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCCA

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FIGURE 1214

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRLNTRWRRRLAAE
QRESLSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSFEREMGLLLLSVVTSRP
EAFQPHHRELLRLLNETLGEVGSFGLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVKSALLKNRLLPPLLHTLFPIVA
AEPPPGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLLPPLLQIVCKGLEDP SQVVRNAALFALGQFSENLOPHISSYSREVMPLLLAYLKSVP LG
HTHHLAKACYALENFVENLGPKVQPYLPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFPAIMEH
LREFLLTGREDLQPVQIQSLETGLVARAVGEPMRPLAECCQLGLGLCDQVDDADLRRTYSLFAALSGLMGE
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLFDDESDEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVP SYM QAVNRERERQVVMVLEALTGVLRSCGTLTKPPGRLAELCGVLKAVLQRKTACQDTDEEEEDDDQA
EYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEADEPVRNAIFGMGVLAEHGGHPAQEHFPKLLGLLFPLLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVAPELLRICSLILADNKIPPDTKAALLLLTF
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 1215

GCTCCCTGGGGAACCCAGCAGGCGGCGAAGATGGCGGAGAACAGCGGTGCGGCCGGCAAGAGCAGCGGGAGCGGC
GCGGGGAAGGGGCGGTGTCCGCAGAGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTG
GCATCCAAAGCAGCTGAGTTGGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGAT
GAAACTCGTAAGTGCTACCGCATGGTTGGAGGAGTGCTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCCTTTG
GAGAACAACAAGGAGCAGATACAGAAGATCATTGAGACACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTA
AATGAATTCCGGGAAAAGCACACATTTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAACTCAGAA
GGGGCTGGGGCTAAGGCCAGCTCAGCTGGAGTGTTGGTCTCCTAGGGACCAAGGCCTTTGCATTTTTTCTACCC
TGACTCCCACCTTAATTTCTCTTTATTGTTATTATTATTATTTCTCTGCTATTGTAATTTTTTTGTTAATT
AAATGTTTTGGTCAGAATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1216

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRGLASKAAELEMELNEHSLVIDTLKEVDETRKCYRMVG
GVLVERTVKEVLPALENNKEQIQKIIETLTQQLQAKGKELNEFREKHNIRLMGEDEKPAAKENSEGAGAKASSAG
VLVS

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FIGURE 1217

GGCTTCCGTAGCGGGAGGGCGAAAGATGGCGGCGGCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCT
GAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTC
TCGAAAATGGGAGAAGAAGAATAAAAATTGTTTATCCTCCACAACCTGCCTGGAGAACCCTCGGAGACCAGCAGAAAT
CTACCACTGTCTGAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTC
TATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTCTTAGA
AGCACAAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCAGG
ACGAGGCCAGTGCCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCA
TTATTTTGTGAAGTTGGTGGAAGGGCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGA
GTATATTCAGCAGCTTCGCAGCCGGACCATCGTTCACACTCTATGATGAGGAGATTCCAGACTCCACAGTGTATAT
ATTTTGCCATTTATTTTCTAAAAATAAACAAAAATTGAAGGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1218

MAAAVLGQLGALWIIHNLRSRGKLALGVLPQSYIHTSASLDISRKWEKKNKIVYPPQLPGEPRRPAEIIYHCRRQIK
YSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRI
RYHGRGRFGIMEKVYCHYFVKLVEGPPPPPEPPKTAVAHAKYIIQQLRSRTIVHTL

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FIGURE 1219

GATCCGCCACCATGGCTGAAGGAGAGAATGAAGTGAGATGGGATGGACTCTGCAGCAGAGATTCAACTACTAGGG
AGACAGCATTGGAAAACATTAGGCAAACCATTTTGGAGAAAACCGAGTATCTTCGTTCCGGTGAAAGAAACACCTC
ATCGTCCATCAGACGGGCTTTCAAATACCGAGTCTTCGGATGGGTTGAATAAGCTACTTGCTCATCTGCTTATGC
TTTCTAAGAGGTGTCCTTTCAAAGATGTGAGAGAGAAAAGTGAGTTTATTCTGAAGAGCATCCAGGAACCTGGCA
TTAGAATTCTCGACCACTAGGACAGGGACCAAGCAGATTCAATCCAGAAAAGGAGATCCTCCAAGTGGGGAGTG
AAGACGCACAGATGCATGCTTTATTTGCAGATTCTTTTGCTGCTTTGGGCCGTTTGATAACATTACGTTAGTGA
TGGTTTTCCACCACAATATTTAGAAAGTTTCTTAAAACTCAGCACTATCTACTGCAAATGGATGGGCCGTTAC
CCCTACATTATCGTCACTACATTGGAATAATGGCTGCGGCAAGACATCAGTGCTCCTACTTAGTGAACCTGCATG
TAAATGATTTCTTCATGTTGGTGGGGACCCCAAGTGCTCAATGGTTTAGAGAATGCTCTCAAAAACTACAGA
ATTTAGGAGAACCTTAACAAAGTGTTAGCCCATAGACCTTGGCTTATTACCAAAGAACACATTGAGGGACTTTTAA
AAGCTGAAGAGCACAGCTGGTCCCTTGCGGAATTGGTACATGCAGTAGTTTACTCACACACTATCATTCTCTTG
CCTCATTCACATTCCGCTGTGGAATCAGTCCAGAAATTCATTGTGATGGTGGCCACACATTAGACCTCCTTCTG
TTTCACTACTGCATCTGTGACATTACAAATGGCAATCACAGTGTGGATGAGATGCCGGTCAACTCAGCAGAAA
ATGTTTCTGTGAAGTGATTCTTTCTTTGAGGTTGAAGCCCTCATGGAAAAGATGAGGCAGTTACAGGAATGTCGAG
ATGAAGAAGAGGCAAGTCAGGAAGAGATGGCTTCACGTTTTGAAATAGAAAAAGAGAGAGTATGTTGTCTTCT
CTTCAGATGATGAAGAAGTTACACCAGCAAGAGCTGTATCTCGTCATTTTGAGGATACTAGTTATGGCTATAAAG
ATTTCTCTAGACATGGGATGCATGTTCCAACATTTCTGTGCCAGGACTATTGCTGGGAAGATCATGGTTATTCTT
TGGTAAATCGCCTTTATCCAGATGTGGGACAGTTGATTGATGAAAAATTTACATTGCTTACAATCTTACTTATA
ATACAAATGGCAATGCACAAAGATGTTGATACCTCAATGCTTAGACGGGCAATTTGGAATATATTACTGCATGT
TTGGAATAAGATATGATGATTATGACTATGGTGAATTAACCAGCTATTGGATCGTAGCTTTAAAGTTTATATCA
AAACTGTGTTTGCCTCTGAAAAGGTTACCAAAAGAATGTATGATAGCTTCTGGAGGCAGTTCAAGCACTCTG
AGAAGGTTTCATGTTAATCTGCTTCTTATAGAAGCTAGGATGCAAGCAGAACTCCTTTATGCTCTGAGAGCCATTA
CCCGCTATATGACCTGATGCTTTTCTTCAATTAAGATGATTCTGGAATGATCAGCAGATATAGTCTACAAGGGG
GAAGGTACTAAGCCCCAGGACCAATGGTAGACAAAATAATTCAGAAATCCATTGTGCCATGATTCTTTAGTTTC
TGCTATTTTTCTGTGGAAGAACCACTGCTGGCACAAGCAGTGACTGTTTGGCAGCTTCAAGTTTAGAGCTGTGAAG
ACAGGCTGCCATTACAGTATTTTGCTTTTTGACAGTACAAGATGCTGTGTAACGTGTTTAAATACAGCAAAATAGT
AACTCTCCAAATCCTGTTGCTTTTATGTTAAATAAGATAACAAGAATTGGAGCATGCAAAGAATGGGACTTGGAT
AATGACTTAAGCTTTATATGTAAAGAATTTTAGAAGATCTTGGTGCTGCTATTCTGCTGGAGGAATGAATAGAT
GGCTGTTTCAGTTAAGCTATTAGTAATAAAAGTGAACATTGCTACTATCTGAGCCTACATACATAACTGTGTGA
TTTCAAATTAACCTTGCAATTATGTGTTAATTTCTTGCACTCAAAAAAGCATAGAATTCCTACTCACACAGCTCA
GCAACAACCATTTTGATGGTAACAGTTAATTTCTTCAATTAGTTTTTAAATTCAGGGTCTGGATATTAATTA
AAATGGCATTCTTAAAGATTTTCTTCAAAAAGCAATCTAAATGAAAGTGTAATTAAGAAGCTGGCGATC
TTTTGATATGCTGTTTACAGGATCCTGACACTGGAGGGCAGCTGCTTGTGCATTACTTGTGTTCCACAGACCA
AAGTTGTGGGACATGTTGCTGTAGACTGCTGCGCAGTCTGGGTGCATTAGTCTCTCTGCCTCTGCCTGCCTCC
TGGTCCCCACTTTAAAGGCTGTGCAGCTCCTTAAATAATAAAGCTGGAATATTTTTAGTCGGGTTATCAAAT
TGATTTACAAAAACGCTAACTTTGTTTGAATGCAACAGGTTTGAATATGTATTAAGTACTTTGTATCTGG
AAGCGTGAATTGCTTTTGAAGTCTGTCAGTATTACTGGTATTTTTAAATAAAGAAGAATTTTCTCCAAAAAAA
AAAAAAA

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FIGURE 1220

MAEGENEVRWDGLCSRSTTRETALENIRQTIILRKTEYLRSVKETPHRPSDGLSNTESDGLNKLLAHLMLSKR
CPFKDVREKSEFILKSIQELGIRIPRPLGQGSPSRFIPEKEILQVGSEDAQMHALFADSFAALGRLDNITLVMVFH
PQYLESFLKTQHYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVGDPKWLNGLENAPQKLQNLGE
LNKVLahrPWLITKEHIEGLLKAEHWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNY
CICDITNGNHSVDEMPVNSAENVSVSDSFFVEALMEKMRQLQECRDEEEASQEEMASRFEIEKRESMFVFSSDD
EEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTNTMA
MHKDVDTSMRLRAIWNYYIHCMTGIRYDDYDYEINQLLDRSFKVYIKTVVCTPEKVTKRMYSFWRQFKHSEKVH
VNLLIEARMQAELLYALRAITRYMT

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FIGURE 1221

ATAGTTGACCAGCTTCTGCAGGGGCTCCTCAGTGAGAGAATGGAGGTGAGGTCAGGGACTCCTGCCTTGCCCTCTG
CCATCACTTCCAGTGATGCCTATTCCCTAAGATTGATCGTGCTGTGCTGAAGATGTTTCCGGAACAACAGAAAAG
AGGAATTTGTAAAGTGTCTGGGTTTCGAGATCCTAGGATTGAGAAGGAGGACTTCTGGCATTCTTACATTGACTATG
AGATATGTATTCTACTAATAAGCATGTGTTTTACAATGAAAACATCCTGTGTACGAAGAAGATATAGAGAATTGCG
TGTGGCTGAGGCAGAGACTCCAAAGTAATGCGTTGCTGGTACAAC TGCCAGAACTTCCATCTAAAAACCTGTTTT
TCAACATGAACAATCGCCAGCACGTGGATCAGCGTCGCCAGGGTCTGGAAGATTTCCCTCAGAAAAGTCCACAGA
ATGCACTTTTGCTTTCAGATAGCAGCCTTCACCTCTTCTTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGT
GTGTTTCTGGGCAGACTAAGTACTCTGTGGAAGAAGCAATTCAACAAGTTTGCCTTAATGAATAGACGTTTCCCTG
AAGAAGATGAAGAAGGAAAAAAGAAAAATGATATAGATTATGATTGAGAAAGTTTCATCCTCTGGGCTTGGACACA
GTAGTGATGACATCAGTTTACATGGATGTAAGTAAATACAGCTCCGCAGGAATCCTGAAAAATAATTCTAATGT
TACTATCTTAGGAATAGCAAATTATGTCCAGTCATAGAGAAGAAAGCTTCATAATAATACATTCTTACCTAAAGC
TCACTGTGATGATGTTAGGTATTTAAATCTTAAAGATGTTGGGTTGTTTATTAGTGGTATTTTTATGTTGTCTT
ATTTTAGGTAAGCTTCTGTGTAAAGCTAAAAATCCTGTGAATACAATACTATCCTTTACAGGCAGACATTATTGG
TAAACAAGATCTTGCCCTCCAATGAAATGACTTACATGTTTTAAAAAACCGAGTTGGTTTTATTGAATTTAAAAA
GATAGGTAACATAAGTATTTAAATCAAGATAGAGCATTCTTCTTGTATCAGTGGGGCAGTGTTACCATAAA
CACGGTGTATATGTTTAAACCTATGAAGAGTAACAGTGTAGACCAGACTGCCTCTCTCAGATATGTGCCTGA
TATTTTGTGATACCTCCCTGCACTGGCAAAACACTATGCTTTTGGGTGTTAGACTGAAATATTTTAAAGATAT
TTAACCTTTCCAGTATTTCTGTTTACGCTTAGATGGAATGTATCTTATGAATAGAGACATATTAAAAATAATGTT
TACATCTTAGAAAAACATAGATAGTGCTAGTAATATTACTTATAACTGTAATATATAGATTGAGAAATACATTT
TCATTATCCAAATCAGCTTCAACAAATGTTTTCTGGAGACAAATAATTTGTTTTTATTATCATTGTATAATCAG
GTTAATGATTTATTTTTTGAATAATGTGCAATTTCTTATCACTAGATAACTTTTCAATATCAGTGGTGGTTACTT
ATTACTTAAATCAGAGGAAGGATTTTATAAAGATTAATAAATTTAATTTTACCAATAAATATTCCCATATTTAG
AAAAGGATGTCGACTTGCTAATTTTCAAGAAATAATTATTCATTTTTTAAAAAGCCCTTTTAAAGCATCTACTTGAA
GATTGGTATAATTTTCAATAAATGTCTTTTTTTTTTAGTGTCCCAAAGATATCTTAGATAAACTATTTTGAAGTTC
AGATTTTCAAGATGAGGCAACATTTTCTTGAGATAATTACCCAAGTTTCATCCATGTTGAATGGTACAAAATATTTT
TGTAAGAACTAACAGGAAGATATTTTCAAGATAACTAGGATAACTTGTGCTTTGTTACCCAGCCTAATTGAAGAGT
GGCAGAGGCTACTACAAAAAGCAACCTTTTCAATTTTCACTAAGAGTTTAAAGCTATTGTATTATTTAAAAAGTCT
TTACAATGCTTGTTCAAAGAACCAACAGAAAAAAGCTAAGAAACTGAGAACTAACATTAAAAAATTAAT
TTAGAATAAGAATGATTTCTTAAATTTGTCTTTTTTTCTTTGGTCTAAAACATTATTAAATTTTGTAAATATT
TTGATTTAATGTGCTTAGATCCTCATTATTTTAAATACAGGAAAAAGAAAGATTTAGTAATTTCTTACCATGCTA
ATATGTAAAGTTCATGCCATCCAGGCATTTAAGAGCGATCCTCATCCCTTCAGCAATATGTATTTGAGTTCACAC
TATTTCTGTTTTACAGCAGTTTTGAAAAACATACTATGCCACCAATTGTATATTATTTTATAGATGATGTAAC
ATAGCCATCAAAATTAATATTATGTAATGCCTAATACTTAGTATGTAATGTCACGAGATCATTTTTTACATTAA
CGTGA

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FIGURE 1222

MFPEQQKEEFVSVVWRDPRIQKEDFWHSYIDYEICHTNSMCFTMKTSCVRRRYREFVWLRQRLQSNALLVOLPE
LPSKNLFFNMNNRQHVDQRRQGLEDFLRKVLQNALLSDSSLHLFLQSHLNSIEDIEACVSGQTKYSVEEAIHKFA
LMNRRFP EEDEEGKKENDIDYDSESSSSGLGHSSDDISSHGCKVNTAPQES

[illegible]

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FIGURE 1223B

GGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTGGCGCACGCCTGTAATCTCAGCTACTA
GGGACGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGTGGAGGTTGCGGTGAGCCAAGATTGCGCCACTGCACT
CCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCCTCAACAACAAAAAAGTTTCCCATACTGGCCTGCC
CCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTTCATGTTCAATAAGAAACCCAG
CCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTGCTGACATTGAGAATCTCAGAC
CTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTGCTATCTGCGCGCAGGATGGGGG
TGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCAGATGCGGCAGACATAACAAC
CTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAAAACTTAGGATAACTTAGAA
AGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATGCAATGGACCTGATTCTAGTT
TATTCTAATTAAGAAGTGAGGCCGGGTTTGACTTCGTTCTGAATACAATCTTGAGTAACTGGGAAAGTCTGAGT
GAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGGCATTATTTGATCTGAAATGT
TTGAGAAGACACGAATAAAG

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FIGURE 1224

MGAMGAAEPLHSVLWVKRRRCVSLPARALLRWWSPEPGPSAPGADARSVLVSEIIAVEEKDDCEKHASSGRW
HKMENPFAFTVHRVKRVRRHRWKWARVTFWSADEQLCHLWLQTLRGLLESLTSRPKHLVFINPFGGKGQGKRIY
EKTVAFLFTLASITTEIIITEHANQAKETLYEINTDSYDGIVCVGGDGMFSEVLHGVIGRTQQSAGIDPNHPRAV
LVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTLLRYSVSLLGYGFYGDLIKDS
EKKRWMGLVRYDFSGKTFLSHQYYEGTLSFLPAQHTVGSPRDNKPCRAGCFVCRQSKQQLLEEEKKALYGLENA
EEVEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQEDQFDFTFV
EVYRVKKFHFTSKHVEDEDNDSKEQEKQKFGKICKDRPSCSASRSSWNCDGEVMHSPAIEVRVHCQLVRLFAR
GIEEES

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FIGURE 1225

CCGGCTGTCGGTCTCCGTGTCGCCGCCGCCGCCGCCGCATCGTGGAGCTGGGGCCCCCTTTTGCCTGGGAGTTTTG
TAGTCGCCTAGGGTCAGCGGTGACATCCCAAAGGGCAGGCCCGGCAGCCGCCATGGTGGCCAAGGATTACCCCTT
CTACCTCACGGTCAAGAGAGCGAACTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAGGACGCTGAGGA
GCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCAGTCGCTAGCAAACCTCATCCCGCCCGTGAAGGCCAC
GCCATTAAAGCGCTTCAGTCAAACCCCTGCAGCGCTCCATTAGCTTCCGCAGTGAGAGCCGCCCTGACATCCTCGC
CCCCGACCCTGGTCCAGAAATGCCGCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTT
CGATGTGTGCGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGCGCATCTTTGAGCTTTCCCAAGG
AGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGCCCTATCATGACCCCATGCTGAAACTCTCCATAAT
GACAGAACAAGAGTTGAATCAAATTTTTGGAACACTGGACTCTCTAATTCTCTACATGAAGAGCTCCTTAGTCA
GCTTCGAGATGTTAGGAAGCCTGATGGCTCGACTGAACATGTTGGTCCCATCCTCGTGGGCTGGCTCCCTTGCCT
CAGCTCCTATGATGCTACTGCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAAGCAAGATCACCG
AGTCCAGGATTTCTACAGCGATGTTTTAGAAATCCCCCTTTAGCCGCAAACCTAGATCTCTGGAATTTCTCGATAT
TCCAAGAAGCCGCTGGTAAAATACCCTCTGCTTCTCCGAGAAATCTTGAGGCACACACCAAATGATAATCCAGA
TCAGCAGACTTGGAAGAAGCTATAAATATCATTAGGGAAATGTGGCAGAAATCAACACCAAGACTGGTGAATC
TGAATGCCGCTATTATAAAGAGCGGCTTCTTTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCG
AGTCTTGTTGTTCATGGTGAAGTGAAGAAATCGGGGCGTGAAACTGCATGTTTTCTGTTCCAAGAAGTGCT
TGTGATCACTCGAGCCGTCACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCCCCGTGAAAGA
CCTCCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGA
GAGAATTAAGAACTTCTTCAGAGTCAGTTTCAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGA
CACTTTCAACAAACAGCAGTGCTTAACTGTATTCTGTCAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGAAGC
TGGGGTGCTTGACTCCGAGGGATCGTTCTAAATCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAACT
TGAGCAGATGGACCAATCGGCAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTCAGCCTCGACTGTGAGCG
CATGGAACAGACAGACTCTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGTCTGACAGAGCATGTGCACTT
CGGGAAGCAGGCCTGCATCTTACCTGTACAGTATTTGCATTCCACAGATGGAACGGTTTGGAAGCACTTTTTTC
ATACTTTTGTGAAAGTATACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAAGTCCAA
TCTGTCTGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTTGTATTTCCCAAGTGTCTGGATGGATGGAGA
GGTACTCAACAAAGTTACTTTAGTTGTCTGCTGGATTTTAAAAAATAGAAAAAGAAATCTCAAACTACTGTT
TTACATAGATTGTTTGAAGAGTCCTTCTCTGTGCTTCTGTACCACTTTCCAGCTCTTAGATGTGGTAGCTAA
AGGCACGGAATTTAGACGGCCTTGTAATAGGGCATGAGGAACTCATCTGTGATTGGGATGGTATTAGAGAGAG
AATCAGGAAAGACCAACTCATGAAGTGAACCTGGTTGATCTTACTCAACTAGAAAGCTTGAAACATCCCTGGG
GATTCTGAAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACCTTGCAACTTCATCCAGTGCAAGTTGATG
CAAGAATGTATTAGGACATAAAATAGAGGCTGACCTTAAAGGGGCCAGGACAGAAGCGGCTGCCAGCTCTGAATC
TTTAACTGAAATGCACATGGCACCAGGAGGTGCTCTCATAGTTGGTTGCTAGCCTAAACATCAGAATAGAACC
CAAAGGGCTTAGGAAGGCCTGCCAGGATAACAAGAGGCCCTGTATTGTTGTTTCATCTGCCTAGGCCTACT
CATTATTTTAGAGAATGAATGAAGCAACAAGGAAGAGAGAATGACTCTATCGATGACACTGTTTATAGAAACA
CAGGAGAGGAAGAATTTGGAATGAAAAGCACTTCGTCAGAACCTTCTGTGGGAGCCATTGAGAGAAAAGCATGGT
CCAGTGCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTCTGCTCTGCTTTTGGGTCGTCAATTTGCCATCTCTGG
TTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGGCCAATTTCACTTAAGTCTGATTAATTAGAAATCAGC
TAGCCAGATTAGTAACCTCTTTGTCCAGCCTTGATTACAGTGCAGGGTAAAGTGCAGACCTTAAAAACAGCTAA
GTACCTAGAAGAGCTCCCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGT
GGTAATTATTCTAAATTATTGCCAAAAAGTTTTTTTTTAATCTGTCTTTCAAGTTTACAGAAAAGAAAGCAGTAAA
TGCAATTGATGTCATTTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAAGATATATCAATATAAAAA
CAAGGTATATACTTTTATTATTTTTTGAACAAGGATATTGTGATCAATTTTACCCTGTAAAACATATTCTGTA
TTTATAGGTCTTAAACATGATGAATTTTTCTATTACAAGTTTATTTAAACTGCTTTCTCAAGTCGTTATTGAT
ACAGCAAGTGAACCTGCTGCAGACAGAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAAATGAA
TGATTCTTTGTAGGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAGTG
TTGGCCTATGGGAAGGTGGTCAATGAATGTTTTGATGAAATGAATGTTTTGTATAATGGCCTTAACTTTTCTG
GAAGTATTTCAAATAAATTACATTATTAAGTCATCA

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FIGURE 1226

MVAKDYPFYLTVKRANCSLELPPASGPAKDAEEPSNKRVKPLSRVTS LANLIPPVKATPLKRF SQT LQRSISFRS
ESRPDILAPRPWSRNAAPSSTKRRDSKLWSETFDVCVNQMLTSKEIKRQEAIFELSQGEEDLIEDLKLAKKAYHD
PMLKLSIMTEQELNQIFGTLD SLIPLHEELLSQLRDVRKPDGSTEHVGPILVGWLPCLSSYDSYCSNQVAAKALL
DHKKQDHRVQDFLQRCLESPFSRKLDLWNFLDIPRSRLVKYPLLLREILRHTPNNDPDQQHLEEA INIIQGIVAE
INTKTGESECRYYKERLLYLEEGQKDSLIDSSRVLCCHGELKNNRGVKLHVFLFQEVLVITRAVTHNEQLCYQLY
RQPIPVKDLLLEDLQDGEVRLGGSLRGAFSNNERIKNFFRVSFKNQSQSQTHSLQANDTFNKQOWLNCIRQAKET
VLCAAGQAGVLDSEGSFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESN
V

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FIGURE 1227

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGGAAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAAGATGTGGCCTGGGTGAAAAAAGATAGTTTGTCTGCTTATTATTGAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAAATGTAGAGAGAAACAAAGTGAAAGCCCTACACTGCTGT
AGAGGTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAATAAATTTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTTAATTGTATTTCCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAATAAAGATGGTTCTTTGGTGTCTG
CTGTCCCTAACGTACATACTGGTTGGGTGACATCAGTAAATGGTCTCCTACCCATGAACAGCAGCTGATTTC
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTACCTACCACTTCCCATGTTGGGGCATGAAAGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTTGAAGTTTATAT
AATGTTTTACCCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATAACATTCTCTATACAACTTGAAATTAACTGAGTTTTACATTTCTCTTT

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FIGURE 1228

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDFLIKQQLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKV KALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICASWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRHRLWDPRTKDGSLSLSLTSHGTGWVTSVKWSPTHEQQLISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWTDGTGLLSGGADNKLYSYRYSPTTSHVGA

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FIGURE 1229

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGGTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCCTGCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTCACTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAAGTGAAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 1230

MSGGWMAQVGAWRTGALGLALLLLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFCRTSGLCVPLTWRC
RDLCSDGSDEEECRIEPTQKGQCPPPGLPCPTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 1231

CGGAAGCAGGAAGTGAGTTTGC GAACGGAGCAGCTGCTGCAGGGCCCATGGCGGACACCCAGTACATCCTGCCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCTGGTACGGAGGCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAGGACCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTCCCTGGTCTATGCCGCGGGTGTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTTCTCTGGGAATGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCTCAGTGCCTACAACACCCGGCTCTTCAAAGAGGTGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCCAGGTGACCCGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCATCGTGGAGA
GTTACATCGGGTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCCTCACCCCTGACTTCACCTCCCTGGATGTTCTCACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAAGCTGTGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGCAGCGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGT
ACATCCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTCCGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGTGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCCACCACAGGCTCCGATGGGCGCCAGATGCCCGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCTCACCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTACGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCGATTCTGGAAGGGCCCCAGTGGGCCCCATCTG
GCCAAGCTTGAGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTTCGTG
TGTGATTTAGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTGAGCACTTTCCAGCCTGCCAATTGCTTCCCCTCTGTGATCTCATTTCACTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAAACGTTCTCACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1232

MADTQYILPNDIGVSSLDCREAFRLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRÄQDPDQL
RQHALAEGLTEEEYQAFVLVYAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSEAAQHPPEEVRGLWHTCGEL
MFSLEPRLRHLGLGKEGITTTFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVR LASVLGSEPS
LDSEVTSKLKSYEFRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKRGSRFW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLT FAGSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQREKLT FLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLMVVRAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTGSDGRPD
ARVRDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLTLRDTVLLRKESRKLIQVP
NTHLEGS DVQLLEYEASAAGLIRSF SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

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FIGURE 1233

CTGATGAAAGTGCTTCCAAACTGAAAATTGGACGTGCCTTTACGATGGTAAGCGTTAACAGCTCCCACTGCTTCT
ATAATGACTCCTTTAAGTACACTTTGTATGGGTGCATGTTACAGCATGGTGTGTTGTGCTTGGGTTAGTATCCAATT
GTGTTGCCATATACATTTTCATCTGCGTCCTCAAAGTCCGAAATGAACTACAACCTACATGATTAACTTGGCAA
TGTCAGACTTGCTTTTTGTTTTTACTTTACCCTTCAGGATTTTTTACTTCACAACACGGAATTGGCCATTTGGAG
ATTTACTTTGTAAGATTTCTGTGATGCTGTTTTATACCAACATGTACGGAAGCATTCTGTTCTTAACCTGTATTA
GTGTAGATCGATTTCTGGCAATTGTCTACCCATTTAAGTCAAAGACTCTAAGAACCAAAGAAATGCAAAGATTG
TTTGCACCTGGCGTGTGGTTAACTGTGATCGGAGGAAGTGCACCCGCCGTTTTTGTTCAGTCTACCCAÇTCTCAGG
GTAACAATGCCTCAGAAGCCTGCTTTGAAAATTTTCCAGAAGCCACATGGAAAAACATATCTCTCAAGGATTGTAA
TTTTCATCGAAATAGTGGGATTTTTTATTCCTCTAATTTTAAATGTAACCTGTTCTAGTATGGTGCTAAAAACTT
TAACCAAACCAGTTACATTAAGTAGAAGCAAAATAAACAAAATAAGGTTTTAAAAATGATTTTTGTACATTGTA
TCATATTCTGTTTTCTGTTTTGTTCCCTTACAATATCAATCTTATTTTATATTCTCTTGTGAGAACACAAACATTTG
TTAATTGCTCAGTAGTGGCAGCAGTAAGGACAATGTACCCAATCACTCTCTGTATTGCTGTTTCCAACCTGTTGTT
TTGACCCTATAGTTTACTACTTTACATCGGACACAATTGAGAATTCAATAAAAAATGAAAACTGGTCTGTCAGGA
GAAGTGACTTCAGATTCTCTGAAGTTCAAGGTGCAGAGAATTTTATTTCAGCATAACCTACAGACCTTAAAAAGTA
AGATATTTGACAATGAATCTGCTGCCTGAAATAAAACCATTAGGACTCACTGGGACAGAACTTTCAAG

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FIGURE 1234

MVSVNSSHCFYND SFKYTLYGCMFSMV FVLGLVSNCAIYIFICVLKVRNETTTYMINLAMSDLLFVFTLPFRIF
YFTRNWPFGDLLCKISVMLFYTNMYGSILFLTCISVDRFLAIVYPFKSKTLRTKRNAKIVCTGVWLTVIGGSAP
AVFVQSTHSQGNNA SEACFENFPEATWKTYLSRIVIFIEIVGFFIPLILNVTCSMVLKTLTKPVTLSRSKINKT
KVLKMIFVHLIIFCFCFVPYNINLILYSLVRTQTFVNCSVVAVRTMYPITLCIAVSNCCFDPVYYFTSDTIQN
SIKMKNWSVRRSDFRSEVHGAENFIQHNLQTLKSKIFDNESAA

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FIGURE 1235

AGAAGGCCTCGCACAAAACACTGTACAAACCCGAAAGGAAGTCTGAGAGACGAACCGCCTTCCTCCCTGAAGCTT
CTAGAAGTGGAGCAGAAAGAAGGTGTGGCCAGGGCCAGCCCCGCTCCTCCCCGGGCGGAAGCTGTGTCAAGTTG
CCGGAAGTCGGCGTGAGGTGGGGCTTATGCGGCGGGCGTGGTGAAATAGATATGGCGACCGAGGGGGATGTGGAGC
TGGAGTTGGAGACTGAGACCAGTGGACCAGAGCGGCCTCCGGAGAAGCCACGGAAACATGACAGCGGTGCGGCGG
ACTTGGAGCGGGTCACCGACTATGCAGAGGAGAAGGAGATCCAGAGTTCCAATCTGGAGACGGCCATGTCTGTGA
TTGGAGACAGAAGGTCCCGGGAGCAGAAAGCCAAACAGGAGCGGGAGAAAGAACTGGCAAAAGTCACTATCAAGA
AGGAAGATCTGGAGCTAATAATGACTGAGATGGAGATATCTCGAGCAGCAGCAGAAACGCAGTTTGCGGGAACACA
TGGGCAACGTGGTAGAGCGCTTATTGCCCTAACCAACTGATGCGTGCTTTCTCAAATATACCTACTGGATTAAT
TTATGGCAATAAAATTTTTTTTTTGTCTTTTTTCAGTTTTATCATCTTGGGTCAAGTAGAGTGTATACTATATCCTA
TGTGTGGAGAATTTATATGTTGGAGACTAACTGAATTTAAGTGACCCATTAAAAATCTAGCACACCTGTATGAAA
AATCAGTGTAGAAGAATACCTCATGTGCAGATGCTAGGTGGCAGGCCAGTCTCATTTCATCTGACTAGCTCTCAAC
AGTATTCAAGGTACATCTGGAGTCTCAGCAGAGTTACTGTACTCAAATGGCATGTGTCTCCAAGACAGCTTATGA
ATATCTAAAAGGCCAGCTACCTGCCTAGGAGCCACTATATATATAGATAGATGTAGGTTATGAACCCAGTTCATA
GGCCACCTTGAGTTAGAATTTTGGTACCTACAACATGCTTGATTTTGAGTGATTAAAAAAAATAATTTGGCTGG
GTGCTGTGGCTCACGCCTCTAATCCCAGCACTTTGGGAGGTCGAGGCAGGTAGATCACGAGGTCAGGAATTCAAG
ACCAGCCTGGCCAACATGTGAAACCCCGTCTCCACTGAAAATAGAAAAATTAGCTGGGCATGGTGGTGGGCGCCT
ATAATCCCAGCTATTCTGGAGGCTGAGGCAGGAATCGCTTGAAATTGGAAAGCAGAGGTTGCAGTGAGCTGAGAT
CACACTACTGTACTACTGTACTCCAGCCTGGGGGAAAGAGTGAAACTCCATCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1236

MATEGDVELELETETSGPERPPEKPRKHDSGAADLERVTDYAEKEIQSSNLETAMSVIGDRRSREQKAKQEREK
ELAKVTIKKEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

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FIGURE 1237

ACCTCCGGAAACCGTAGATTCCGGGCGGTTCGGAGCCGCGGGAGCTGTAGTTCTCCCGGGCTCAGAGAAGTAGG
CAGAGAGCGGACCTGGCGGCCGGGCAGCATGCGGGGCTGGAGCTCTTGTCGGACCAGGGCTACCGGGTGGACGG
GCGGCGCGCCGGGAGCTGCGCAAGATCCAGGCGCGGATGGGCGTGTTCGCGCAGGCTGACGGCTCGGCCTACAT
TGAGCAGGGCAACACCAAGGCACTGGCTGTGGTCTACGGCCCGCACGAGATCCGGGGCTCCCGGGCTCGAGCCCT
GCCGGACAGGGCCCTAGTGAAGTGTCAATATAGTTCAGCGACCTTCAGCACAGGTGAGCGCAAGCGACGGCCACA
TGGGGACCGTAAGTCCTGTGAGATGGGCCTGCAGCTCCGCCAGACTTTCGAAGCAGCCATCCTCACACAGCTGCA
CCCACGCTCCCAGATTGATATCTATGTGCAGGTGCTACAGGCAGATGGTGGGACCTATGCAGCTTGTGTGAATGC
AGCCACGCTGGCAGTGCTGGATGCCGGGATACCCATGAGAGACTTTGTGTGTGCGTGCTCAGCTGGCTTCGTGGA
CGGCACAGCCCTGGCGGACCTCAGCCATGTGGAGGAAGCAGCTGGTGGCCCCAGCTGGCCCTGGCCCTGCTGCC
AGCCTCAGGACAGATTGCGCTGCTTGAGATGGATGCCCCGGCTGCACGAGGACCACCTGGAGCGGGTGTGGAGGC
TGCTGCCCAGGCTGCCCCGAGATGTGCACACCCTCTTAGATCGAGTGGTCCGGCAGCATGTGCGTGAGGCCTCTAT
CTTGCTGGGGGACTGACCACCCAGCCACCCATGTCCAGAATAAACCTCCTTGCCACACXAAAAAAAAA

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FIGURE 1238

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRGSRARALPDRALVNCQ
YSSATFSTGERKRRPHGDRKSCEMGLQLRQTFEAAILTQLHPRSQIDIYVQVLQADGGTYAACVNAATLAVLDAG
IPMRDFVCACSAGFVDGTALADLSHVVEEAAGGPQLALALLPASGQIALLEMDARLHEDHLERVLEAAAQAARDVH
TLIDRVVRQHVREASILLGD

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FIGURE 1239

TCGCTTTGTGATTCTTGATCCGGAACCTTTGTCACCCAGGAACCCCGGAAGAGGTAGCTCACGCGATAGAAACGTG
TTCGCTTGCCCAGAAGAAGGGAAGGCGCGAGTGAGGAAAGGAGGTACTGTAGATGCCCTCCAAATCCTTGGTTAT
GGAATATTTGGCTCATCCCAGTACACTCGGCTTGGCTGTTGGAGTTGCTTGTGGCATGTGCCTGGGCTGGAGCCT
TCGAGTATGCTTTGGGATGCTCCCCAAAAGCAAGACGAGCAAGACACACAGATACTGAAAGTGAAGCAAGCAT
CTTGGGAGACAGCGGGGAGTACAAGATGATTCTTGTGGTTTCGAAATGACTTAAAGATGGGAAAAGGGAAAGTGGC
TGCCAGTGCTCTCATGCTGCTGTTTTAGCCTACAAGCAGATTCAAAGAAGAAATCCTGAAATGCTCAAACAATG
GGAATACTGTGGCCAGCCCCAAGGTGGTGGTCAAAGCTCCTGATGAAGAAACCCTGATTGCATTATTGGCCCATGC
AAAAATGCTGGGACTGACTGTAAGTTTAATTCAAGATGCTGGACGTACTCAGATTGCACCAGGCTCTCAAACGTG
CCTAGGGATTGGGCCAGGACCAGCAGACCTAATTGACAAAGTCACTGGTCACCTAAACTTTACTAGGTGGACTT
TGATATGACAACAACCCCTCCATCACAAGTGTTTGAAGCCTGTCAGATTCTAACAACAAAAGCTGAATTTCTTCA
CCCAACTTAAATGTTCTTGAGATGAAAATAAACCTATTCCCATGTTCTAAAAAAA

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FIGURE 1240

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMLPKSKTSKTHDTESEASILGDSGEYKMILVVRNDL
KMGKGKVAAQC SHAAVSAYKQIQRNPEMLKQWEYCGQPKVVVKAPDEETLIALLAHAKMLGLTVSLIQDAGRTQ
IAPGSQTVLGIGPGPADLIDKVTGHLKLY

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FIGURE 1241

GGCACGAGGCCAGGCGACTCCGGGACAGGGGTCTCGGCCGTCGGCGTCAATGGTTTCGCGCGTGCAGCTCCCGCC
TGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAGGAAGCTCCGGAA
ATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGTGTGGAAAGGACT
GTTTTATTGCATGTGGATGCAGGACAAGCCACTCTCCAGGAAGAATTAGGAAGGACTATTTCCAGCTCGTTCA
TGCTTTTTCAGACCACGGAGGCGCAGCACCTGTTCTTCAGGCCTTCTGGCAGACCATGAATCGCGAGTGGACGGG
CATTGACAGGCTGCGCCTGGATAAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTTGAAGGTTCTGAA
GATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCTGCACCCAGCAG
CCAGGCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGTGGGCGCCGAGGA
GCTTACGGCAGACCAGAACCTGAAGTTTCATCGACCCCTTCTGCAGAATCGCTGCCCGGACCAAGGATTCTTGGT
TTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGAAGACCTCTGAA
TGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGGAGTGGAGACGC
GCTGTCCAGAAAGAGTCTGAGAAGCCGCCGAGGCTCCATCTGCAGGGCTGAACCTGAGGCTGGTGGAGGACA
GGCAGGTGACGACAGGACAGTGGCGGGCCCGTTCTCCAGTTTACTACGAGGCAGTTGCTAACAGACTGTTTGA
AATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAAGCTGCAGGACCT
GGCAGGAGGCATTTTCCCTGAAGATGAGATCCAGAGAAGGCCCTGCAGGCGCTGCTTGAAGGGAGGCGGCAGAA
GAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGAGCCCCGAGCCC
GGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGAGGCTGGTGAGCA
GCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTTGGCCAGAGAGGGGCTGCCAGAGAAG
GAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAAGAAGAAGAACG
CAGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCCGCGGGACGAGGCTG
ACCGGGCTGTTCTGTAGACTCAGGACCGTGCTCCAGAATCTCTGTGCCAGGCGGGAGGGAAGGGCGGCACTGGA
GAGATGGGCCCATTATTAGGGGCCAGCATCCAGGAAGTGGACCTTTCCCGAGGCTCCGCTGTGGCTGTGAT
GACCTTGGGCCAGAAGGTCAAATCCGAAGACTGAACTCTGCCTGCAGCAGGACTGGCTGCCCTGCTGTGGGG
GGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGAAGTGTGCTTCGGGTGTGCTTACGGACGTGTGGGA
GGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTATGTTTGTGGAAAAATCTTGCAAGACATTTCT
CCTTTACAGAACTGCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCCTCAATCTGGGGTC
TAGAGTTGTGCAGGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGTGAGCGTGTGTGTGGTGGGAAGACCT
GGCTTCCGCGAGAGCCTTGTTCTTGGAGGCGAGGAGCGCCCCGCCATCCTGGGTACCCGCGGGTCCGACGGCTGCG
CACCTCTTTCCCTCAGCCAGGTCACCTCAGCGTCTTCCCTGCCCCCTCTCCCTTACACCTGCTGGAGCCTGTG
AGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCTACCTGCATGGAACAAG
GGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTGGGTTTTGCCCGCA
TCTTCTGTTCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCTTGGAGTGGGCCTG
GGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCTGGACTGCATCCGGTTCCCCAAAGCCCTGC
TGCATTGAGTGTCCCCAACCCCGGGCAGGTGGACCTGGTGACACCTCCTTCAGTCCCACTCAGCTGGGCGGC
CGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAGGGGTTAGGGTTCT
TTCCCCAAAGGAACCTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG
GCCGAGGTGGCCAGATCACCTGAGGTGAGGATTTGAGACCAGACTGACCAACATGGAGAAACCCATCTCTACT
AAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
GCTTGAACCTGGGAGGCAGAGGTTGTGGTGAAGTACAGCCATTGCACTCCAGCCTGGGCAACGAGAGGGA
AACTCTGTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1242

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWKGLFYCMWMQDKPLLQEEL
GRTISQLVHAFQTTEAQHLFLQAFWQTMNREWTGIDRLRLDKFYMLMRMVLNESLKVLMQGWEEERQIEELLELL
MTEILHFPSSQAPNGVKSHFIEIFLEELTKVGAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQA
PLAIEDLLNELDTQDEEVASDSDESSEGGGERGDALSQKRSEKPPAGSICRAEPEAGEEQAGDDRDSSGGPVLQFDY
EAVANRLFEMASRQSTPSQNRKRLYKVIRKLQDLAGGIFPEDEIPEKACRRLLEGRRQKKTQKQKRLRLQQERG
KGEKEPPSPGMRKRSRRRGVGADPEARAEAGEQPGTAERALLRDQPRGRGQRGARQRRRTPRPLTSARAKAANV
QEPEKKKKRRE

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FIGURE 1243

GGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCTTGAGGTGTCGCCGCCCTCCC
TGTCTTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGGGCGCGGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGC CGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCTGTTTCTCTCCGGCCCCAC
CGCGGATCCATGTACCAGGATTATCCCGGGAACTTTGACACCTCGTCCCGGGGCAGCAGCGGCTCTCTGCGCACG
CCGAGTCTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCACAGTGATCACCTCCATGT
CCAACCCATACCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTTGGCACCACCGTGGGCCGAGGAGGAGAGATGAGCAGCTGTCTCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTTATGTTGGTGGCTCACGGCCCAGTGTGCAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCAGCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAC
AGGAGCCCCCTGGAAGAGGACAGCCCTCGTCTCGTCGGCGGGGCTGGACAAGGCCAGCGCTCTGTATCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTGGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAACCTCCCCACTC
TGCTGGCTCTGTAACCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCTCTCGCTCCTCCTTCCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGCAAGCAAATCCCATTTCTTGAAGCCCTTGGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTG
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCCTTCTCCTCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCTGCGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGGAAA

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FIGURE 1244

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITMSNP
YPRSHPYSPPLGLASVPGHMLPRPGVIKTIGTTVGRRRRDEQLSPEEEEKRRIRRRERKNLAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGVPCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPSESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1245

AATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTTCTTTCCGTTGCTGGCGGAAGAGGCACGTGCGCTG
CTGAATGGAGCTGGTTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTTCGCTGTACACCCGGAGCCCAAGGCTTG
CGGCGACCACGAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCAGCTGCCTCCTTGTGTCAGCAGTAGC
TGTAATAAGTCGTTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGA
GCATGGGGCTCTAGTGCATCAGTGGTACAATAACTTGCCTGAAATTCTATGGCAACAGGCATTTAATCAGTGG
AGCGGAAGATGGACTCATCTGTATCTGGGATGCAAAGAAATGGGAATGCCTGAAGTCAATTAAAGCTCACAAAGG
ACAGGTGACCTTCCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTCGGTTGGTACAGATAAACTTTAAGAAC
GTGGAATCTTGTAGAAGGAAGATCAGCATTCTATAAAAAATATAAAACAAAATGCTCACATAGTAGAATGGTCCCC
AAGAGGAGAGCAGTATGTAGTTATCATACAGAATAAAATAGACATCTATCAGCTTGACACTGCATCCATTAGTGG
CACCATCACAAATGAAAAGAGAATTTCTCTGTAAATTTCTTTTCAGAGTCTGTCCTTGCAGTGGCTGGAGATGA
AGAAGTTATAAGGTTTTTTGACTGTGATTCAGTAGTGTGCTCTGCGAATTTAAAGCTCATGAAAACAGGGTAAA
GGACATGTTTCAGTTTTGAAATTCAGAGCATCATGTTATTGTTTCAGCATCGAGTGATGGTTTCATCAAAATGTG
GAAGCTTAAGCAGGATAAGAAAGTTCCCCATCTTTACTCTGTGAAATAAACTAATGCCAGGCTGACGTGTCT
TGGAGTGTGGCTAGACAAAGTGGCAGACATGAAAAGCCTTCCTCCAGCTGCAGAGCCTTCTCCTGTAAGTAAAGA
ACAGTCCAAAATTGGCAAAAAGGAGCCTGGTGACACAGTGCACAAAGAAGAAAAGCGGTCAAAACCTAACACAAA
GAAACGCGGTTTTAACAGGTGACAGTAAGAAAGCAACAAAAGAAAGTGGCCTGATATCAACCAAGAAGAGGAAAAT
GGTAGAAATGTTGGAAGAAGAGGAAAAAGAAGAAAATAAAAAACAATGCAGTGAATCACAGATGTCTCCTGAAA
GAACTCTTTTAGATGAAATCATTCTACTCAAATGTACCTTAATTTTTTTTTTTTCCCTGAGTAAAAGCAAGAAATT
TCTTCCTTTGGAATAATATATATATTAATAAAACCCTTTTAGATGGTTTTTTTTTAAAAAATAAATAAATAAATAA
TAAATTTACTTTTGGCAGACAGTGTATGAATTATGTATCATGTTGATATATAATATGTTAATGTGTATGTA
ATTTTTACTTTGTACAAAGCAAATAAGATCTTTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MELVAGCYEQVLFQFAVHPEPKACGDHEQWTLVADFTHHAHTASLSAVAVNSRFVVTGSKDETIHIYDMKKKIEH
GALVHHS GTITCLKFYGNRHLISGAEDGLICIWDAKKWECLKSIKAHKGQVTFLSIHPGKLALSVGTDKTLRTW
NLVEGRSAFIKNIKQNAHIVEWSPRGEQYVVIIQNKIDIIYQLDTASISGTITNEKRISSVKFLSESVLAVAGDEE
VIRFFDCDSLVLCEFKAHENRVKDMFSFEIPEHHVIVSASSDGFIMWKLKQDKKVPPSLLCEINTNARLTCLG
VWLDKVADMKSLPPAAEPSVSKESKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKKATKESGLISTKKRKMV
EMLEKKRKKKKIKTMQ

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FIGURE 1247

AGCAGGTTTCGAATGCTCTTTACTTCCTTTGTGGAGCAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAG
ACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTCTTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTG
AAACAGCCTCGAAAAAGGTCAATGGCTTGCAAAACCGCTTTTAATAAAACCGGGTTCCAAGAAGTGTTGATCCT
CCTCATTATGAAGTGTCTTCACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTCCGAAGAATTGGAC
AACTACCAGAGGATGCGGCGCTCCTCCACCGCTCCCGCTGCATCCAGCACCACCTGTGGGTCCGAGGCCCTCC
AGCGTCAAACAAGCAGGACCAACCTCAGTTCCATGGAGCTTCTCTCCGAAATGACTTTGCACAACCACAGCCA
ATGAAAACATTTAATAGCACCTTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAGTGCCTTGAGCAGGCC
CTGGAAGACCGAGTAATGGAGGAGATTCCCTGTGAAATTTATGTGAGGGGGCGAGAAGATTCTGCACAAGCATCC
ATATCCATTGACTTCTAATCTTCTGCTAATGGTGATGTGAATTTAGGGTGTGTACGTACGCAGCCTCCAGGGC
ACCATACTGTTTTCCAGCAGCCAACCTTTTTCTCCCATCACAACCTACGAAGACCTTGATTTACCGTTAACCTATTG
TATGGTGATGTTTTTATTCTCTCAGGCAGTCTATATATGTTAAACCAATCAAGGAACCTACTCTATTAGTGAA
ACAATAATCATCTCTATTGCTTGGTGTCATTATAGGAAGCACTGCCAGTTAAAGAGCATTAGAAGAGGTGGTTG
GATGGAGCCAGGCTCAGGCTGCCTCTTCGTTTTAGCAACAAGAAGACTGCTCTTGACTGATAACAGCTCTGTCAA
TATTTTGATGCCACAATAAACTTGATTTTTCTTTACATTCCCTTTATTTTTCTCTTAAATTTAATTTGTTT
TATAAGCCTATCGTTTTTACCATTTCATTTTCTTACATAAGTACAAGTGGTTAATGTACCACATACTTCAGTATAG
GCATTTGTTCTTGAGTGTGTCAAAATACAGCTAGTTACTGTGCCAATTAAGACCCAGTTGTATTTACCCATCTG
TTTCTTCTGGCTAATCTCTGTACTTCTGCCTTTTAATTACTGGGCCCTTATTCCTTATTTCTGTGAGAAATAA
TAGATGATATGATTTATTACCTTTCAATTATATTTTTCTCAGTTATACTAGAAAATTTCAATACTCTGGGATATA
TGTACCATTGTCAGCTATGACTAAAAATTTGAAAAAGATAAAAATTTCTAGCAAGCCTTTGAAGTTTACCAAGTA
TAGTCACATTTCAGTGACAGCCATTTCATTCCAGTAAAGAATCATTTTCATTCACTTTGGGAGAGGCCTATAATTAC
ATTTATTTGCAATGTTTTCTCTTCGCTAGATTGTTACATAGCTCCCATCTGTGTTTTGCTTACAGCATATGGT
AACCAAGGTTAGATGCCAGTTAAATTCCTTAGAAATGGATGAGCCTTGAGATTGCTTCTTAAGTGGGACATGA
CATTTTTCTAGCTCTTATCAAGAATAACAACTTCCACTTTTTTTTAACTGCACTTTTGACTTTTTTTATGGTAT
AAAAACAATAATTTATAAACATAAAAGCTCATTGTGTTTTTTAGACTTTTGATATTATTTGATACTGTACAACT
TTATTAAATCAAGATGAAAGACCTACAGGACAGATTCCTTTCAAGTGTTCATCAGTGGCTTTGTATGCAAAATAT
GCTGTGTTGGACCTGGACGCTATAACTTATTGTAAAGACCTTGAAATGTGGACATAAGCTCTTTCTTTCTTTT
GTTACTGTATTTAGTTTGTGATAAATTTTCACTGTGTGATATTTATGCTCTAAATCACTACACAAATCCCATAT
TAAATATACATTGTACCTGACCCTTTAATCATGTTATTTATGCCACCAAGGTTGTGGATCTTAAGGTATGTATG
GAAAGGAACTCATTTATCAAATTGTAAGTAATACAGACATGCCATTTAAAGAGGTAAATCTTGTTTTCTATAT
TTTGTAGTAAATCTCAATGAAATAAGTTGAAGTTTCACTGGATTTCAATTAACCTTTTAAATATTACATATATGT
GTTTTCTCAGATTAGTGAAAATGTGACCTTAAATTTAATACATATACTGCCTCAG

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FIGURE 1248

MLFTSFVEQKKKAGVFEQITKTHGTIIGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPHYE
LFSLRDKEISADLADLSEELDNYQRMRRSSTASRCIHDHHCQSASSVKQSRINLSSMELPLRNDFAQPQPMKTF
NSTFKKSSYTFKQGHECPEQALEDRVMEEIPCEIYVRGREDQAQASISIDF

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FIGURE 1249

AAACCCAAAGCGGCCGCGTAGGCGAAGGTGAAGATGGCTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTT
TGCAATTGTCCACTGGACGTTTTAGTCATATTTCAGACACCAGTTGTTTCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCGCTGCTTCCAAGTGTCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCAGTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCTATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTTCACTTGTCTTCTCAGTTATTGGATATGTATCTTTGTGTACATATCTTTGCAAAAAATGGATAAGT
ACAAAACCTTGATGTAATTTGTACCAATGAATACGTAAACATACAGTGACAAACATTAACTTAGAAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAACAGAAATTTAGAATGGTGCATTATTTTAAACAAATG
GTATTGGCTTAACCTAGTTGTCTTCTCAGTTATGCTCTTTTGTGCAAGGAATCTCAAGTGGGACAAACATAAAAAAGA
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACACCT
CACCAACCCCATCTCCCACTCAGAAATCACCTCCCAGCCTCAGGAAGAGTAGAAATTGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCTTTGTATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCAGCTCCTGCTGCTAGTCTCCAATTGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTTTATACTAGGTCTGGTTGGGTCATTGTCTAGAGTAGGGATTGGCTGTCTTAAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTTATTGTGTTTATAACACTTGTCACTTTACTGTAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTTGAAAGATAGGTATTTATTTTTCTAGAGACAGGAGTTTGTCTGTGCCCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCCTCAGCTTACT
GAGTAAGGATATGTATTTCTTAAAGTTAGTTTATCCACTTCAGATTTTATGTTTTTCAATTTGTAAGGATAAACTT
TTCCACAAAATTTTCAACAATCATTGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTTGTTTACTTGAAGTGGGAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGGAAGCATTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTTGTTAGTAAATTTATGAAATTGAAGTTCTGCAGCATGTCAGGCCAGGATTATTAGGGAGATTCTTCGAAACT
AGTGTGTGTTTATTTAAAGGAGAAAGGATAACAAATAGAATGTTCTAAAACAGAAAGTCCAAGTGCCTGTCTACTT
ATGGGACCAATAAATAAAGAACAGACATTTGATTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCATTTCTTCGCCTTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAATGGTGCCTGCAGAAGTTGGGAGAAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAATATGGATGACAAGGGTCTCTGTTACAGGGGCCCTCAG
AGCACCTTCGTTTCTCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAGGGAATTTTCATACATACGATTTTGTGTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1250

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSE
RNLTCGHTSVI
LNRMAPVLPSVLKLPVRSITYFSARKGKRKT VKAVIDRFLRLHCGLWVRRKAGYKKKLWKKTP
ARKKRLREFVFC
NKTQSKLLDKMTTSFWKRRN

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FIGURE 1251

GGCAACGAGGGGCTGCCTCTGGGGGGTCCGCTAGTCGCGGGGCGGCGGCGGCTGCGGGCGCGAGGTTCCAG
CAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAGAGGGCCCAGCCCCGGGGCAGGATGACC
AAGGCCCGGCTGTTCCGGCTGTGGCTGGTGCTGGGGTCGGTGTTTCATGATCCTGCTGATCATCGTGTACTGGGAC
AGCGCAGGCGCGCGCACTTCTACTTGCACACGTCCTTCTTAGGCCGCACACGGGGCCGCCGCTGCCCCAGCCC
GGGCCGGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTGACGAGTTTCTGGACAAGTTTCTCAGTGCTGGC
GTGAAGCAGAGCGACCTTCCCAGAAAGGAGACGGAGCAGCCGCTGCGCCGGGAGCATGGAGGAGAGCGTGAGA
GGCTACGACTGGTCCCCGCGCAGCCCCGGCGCAGCCAGACCAGGGCCGGCAGCAGGCGGAGCGGAGGAGCGTG
CTGCGGGGCTTCTGCGCCAACTCCAGCCTGGCCTTCCCCACCAAGGAGCGCGCATTTCGACGACATCCCCAACTCG
GAGCTGAGCCACCTGATCGTGGACGACCGGCACGGGGCCATCTACTGCTACGTGCCCAAGGTGGCCTGCACCAAC
TGAAGCGCGTGATGATCGTGTGAGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATC
CCGCGGAGCAGCTGCACACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCCGCTACGGGAAGCTCTCC
CGCCACCTCATGAAGGTCAAGCTCAAGAAGTACACCAAGTTCTCTTCTGTCGCGACCCCTTCGTGCGCCTGATC
TCCGCCCTTCCGAGCAAGTTCGAGCTGGAGAACGAGGAGTTCTACCGCAAGTTCGCCGTGCCCATGCTGCGGCTG
TACGCCAACACACCAGCCTGCCCGCCTCGGCGCGCAGGCGCTTCCGCGCTGGCCTCAAGGTGTCTTCGCCAAC
TTCATCCAGTACCTGCTGGACCCGCACACGGAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGCAGGTGTACCGC
CTCTGCCACCCGTGCCAGATCGACTACGACTTCGTGGGGAAGCTGGAGACTCTGGACGAGGACGCCGCGCAGCTG
CTGCAGCTACTCCAGGTGGACCGGCAGCTCCGCTTCCCCCGAGCTACCGGAACAGGACCGCCAGCAGCTGGGAG
GAGGACTGGTTCGCCAAGATCCCCCTGGCCTGGAGGCAGCAGCTGTATAAACTCTACGAGGCCGACTTTGTCTC
TTCGGCTACCCCAAGCCCGAAAACCTCCTCCGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCTTGAAC
CTGACGCACGCGCACTCCAGTTTTTTTATGACCTACGATTTTGCAATCTGGGCTTCTTGTTCACTCCACTGCCTC
TATCCATTGAGTACTGTATCGATATTGTTTTTTAAGATTAATATATTTTACGGTATTTAATACGAAATGTGGAAGG
GAATGCTGGAGTAAAAATATCCCTCTCCCTCCGCCCCCGCCCGCCCGCCGCTCGCCCGCCCGCCCGCTCGC
CCGCTCCTGTGGTTTTTCTGAGCGTGCGGGCTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTA
GGGCCACTCACCGGAGGAGGGCGGGGCTGCACTTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG
ACAAATCCTTCCAGAGGGAAGTTCTTTGTTTAAAGTGTGTACTTGAAAAGGTCAATCTTCAGGGCTTCCTGTTT
GAAGTCAAGTCAGAGGTAAACCGGTCACTTACAGAAGCAGGATTTCTAGGATTTCTAACTCCAGCTGTTCCCAT
CTGTCTAGTTTAAATTATGGCTGTTAAGGCCGGGCGGGTGAAGCAGGTAATCCCAGAACTTTGGGAGGCCC
AGACAGAAGGATCGCTTGAGGTGAGGAATTTGAGACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAA
AAAAAAAAAAAAAAAAAA

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FIGURE 1252

MTKARLFRLWLVLGSMILLIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDEF LDKFLS
AGVKQSDLP RKETE QPPAPGSMEESVRGYDWS PRDARRSPDQGRQQAERRSVLRGFCANSSLAFFT KERAFDDIP
NSELSHLIVDDRHGAIICYVPKVACTNWKRMIVLSGSL LHRGAPYRDPLRIPREHVHNASAH LTFNKFWRRYGK
LSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF
ANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLET LDEDAQLLQLQVDRQLRFPPSYRNRTASS
WEEDWFAKIPLAWRQQLYKLYEADFVLFGYPKPENLLRD

1384/2682
FIGURE 1253

AGTCCTTGGCGGAGGTGACCAAAGCCACGTAATGTCGGTAGTTTCGCTCATCCGTCCATGCCAGATGGATTGTGGGG
AAGGTGATTGGGACAAAAATGCAAAAGACTGCTAAAGTGAGAGTGACCAGGCTTGTTCTGGATCCCTATTTATTA
AAGTATTTTAATAAGCGGAAAACCTACTTTGCTCACGATGCCCTTCAGCAGTGCACAGTTGGGGATATTGTGCTT
CTCAGAGCTTTACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAA
GTCATAGATCCAGTGACAGGAAAGCCCTGTGCTGGAACCTACCTGGAGAGTCCGTTGAGTTCGGAAACCACC
CAGCTAAGCAAAAATCTGGAAGAAGCAATATCTCTTCAGCACAGTGAAGCGGGAGTGGAAGAAGGATCTAAAGG
GAAAAACTGACATGTTTATGTTATGGAAAAAGAAATTTTTCTAAGTTTCATCAGAACTGTGTCCAGTTTCTCTG
TGGTGTTTATGAAATAGCTAAAAGCAAAATGAAGTAAAGGGCATACTATGGTTTTTCACAAAAAAAAAAAAAAAAA

1385/2682
FIGURE 1254

MSVVRSSVHARWIVGKVIQTKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALPVPRAK
HVKHELAEIVFKVGKVIDPVTGKPCAGTTYLESPLSSETTQLSKNLEELNISSAQ

1386/2682
FIGURE 1255

GAGTTTTCATTTGTGGTGAGATTCTCTCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTGCGCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTTGTGATGACTATATGGCAACTC
TTTGCTGTCCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTATGGCATGAAAAAATCAAATTTTGTATTATTAT
AAATGAATGTTGTCCCTGAAGCTTAGCTAAATGGTGAAGTATTTCTCCTTGCTTTCATATTATCGAATTTCTC
GGCTTATAAAGCTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAA
AAATAAAAAA

1387/2682
FIGURE 1256

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

1388/2682
FIGURE 1257

ACGAGGATCCGGTGTTCACCCAGGGGGAAAAATCGGCCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAG
AAGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGACCGGCCCGATGGCACCTACTGTTTCCGTCTG
CACAAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTG
TCGCTGGGGACCTGCTTTGGAAAATTCATAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTT
GCACCTTATGCCAAGTATAAAGTTTGGATAAAGCCTGGTGCAGAGCAGTCCTTCCTGTATGGGAACCATGTGTG
AAATCTGGTCTGGGTCGAATCACTGAAAATACTTCTCAGTACCAGGGCGTGGTGGTGTACTCCATGGCAGACATC
CCTTTGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTGTGGTATTT
CATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAACGAAGCCATTCCAAGGACAGAC
GGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTGTCAACACT
CTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTATTATATAC
AGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATCAGAGGGCT
TCTTGTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGTGATAACACT
GTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAATAAACCACA
TGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTGGTGTGTGGT
ATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCATTAGCTTT
AATAAGGTTTCAATTTCTTCTGTTTAAAAAGACACAAAACCTGAAAATCAGCTTTGGCCATCTACCTGAGAATTAG
AAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGTGCGCCTGTAATCCCAGCACTTG
GGAGGCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCCCATCTC
TACTAAAAAAA

1389/2682
FIGURE 1258

MRPLTEEETRVMFEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFRLHVTALDYLPYAKYKVWIKPGAESFLYGNHVLKSLGRITENTSQYQGVVYSMADIPLGFGVAAKST
QDCRKVDPMIAIVVFHQADIGEYVRHEETLT

1390/2682
FIGURE 1259

GGAAGAAAACCTGAAAAAGACCCCAAAGAAGAATATGAAAAATGGTAACTGGAGCCGTAGCGTCGGTGCTGGAAGA
CGAGGCCACAGACACTTCTGATAGTGAAGGAAGCTGTGGATCGGAAAAGGACCACCTTTATTCTGATGATGACGC
AATAGAAGCTGACAGTGAGGGTGATGCTGAGCCCTGTGACAAAGAAAATGAAAATGATGGAGAATCAAGTGTGG
GACTAATATGGGCTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCTGAAAGTAAACCTACTATTCT
GGTCAAAAATAAGAAGCTGGAAAAGGAAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAAAACAGCGTGA
TAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGACAAAGAGACAGAGAGAAATCT
TCAGAGAATTGCAACAAGGGGTGTGGTGCAATTATTTAATGCTGTTTCAGAAACATCAAAAGAATGTTGATGAAAA
GGTTAAGGAAGCTGGAAGTTCTATGAGAAAGCGTGCTAAGTTGATATCAACTGTTTCCAAGAAAGATTTTCATCAG
TGTTTTGAGAGGGATGGATGGAAGTACAAATGAGACTGCTTCAAGCAGGAAGAAACCAAAAGCCAAACAGACTGA
AGTGAAATCAGAAGAAGGCCAGGTTGGACGATCCTACGTGATGATTTCATGATGGGAGCATCTATGAAAGACTG
GGACAAGGAAAGTGATGGGCCAGATGACAGCAGACCAGAATCTGCAAGTGACTCTGATACATAAAGCATCATAGG
AAATACAATTGCAGTCGTTTTATTTTTCTAGAAAAATATGTCATCCTCTGATAGTTGGGAATTATAAGGATAC
CATTTGTAAGAAAGCCAAAAGACTTTTGCCAGATTCATATTTCCCTTTTCATGTACACTTTATATATACTTCA
TTAAAATTATATTTTAAACCCTTGTATAATTTAAGCATTGTTCCCTCAGAACATTTGTAAAAGGATATATTTCTG
CTTGACCAGCGAGATGTGCATTTTGCCAGGATCATATTGGTCATGTCTATTGGTGTATTATTTTCAGTATCACCAA
TGTTTTCAGAAATACAGTACTAATTCATCATTAAACTCTTTGAAGTTAATATTTTTCTGCCTTCTAACTTATAGA
CTCAACTATGTATCTGTAGTTTTTGGGAATGGTTGGTGTTTTTTGCTTTGTGTTGGGAAGTTATTGAGAAAACCT
ATATAATAAAATTTAAATTATAGTTTTTCAAA

1391/2682
FIGURE 1260

MKMVTGAVASVLEDEATDTSDEGSCGSEKDHFYSDDDAIEADSEGDAEPCDKENENDGESSVGTNMGWADAMAK
VLNKKTPESKPTILVKNKKLEKEKEKLKQERLEKIKQRDKRLEWEMMCRVKPDVVQDKETERNLQRIATRGVVQL
FNAVQKHQKNVDEKVKKEAGSSMRKRAKLITVSKKDFISVLRGMDGSTNETASSRKKPKAKQTEVKSEEGPGWTI
LRDDFMMGASMKDWDKESDGPDDSRPESASDSDT

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FIGURE 1261

AAACATGAATTCAAACGGCTCATCTTATTTTCGACCATTTCGGCCCCATCATGAAAGTGAAAAATGAAAAGCTCAAC
ATGGCCAACACGCTTATCAATGTTATCGTGCCTCTAGCAAAAAGGGTGGACAAGTTCGGGCAGTTCATGCAGAAT
TTCAGGCCTGCTGATGAAGTTTTTAGATGTGTGCCTTTAAGCCCTTGATTGTGCGGTGTTGGATCTTAGAAGCTG
TGATGGCTCAGATGCACATATTGGCTGAGGATAACCAGCTAAGTGATTTACCAGCTTGTTTTAAACATAGAAAA
TCCTACTGTCTAATTATAAATCTTGAAAGATCAAGCTGATTTTTATTCTTTTTTTTGAGATGGAGTCTTACT
CTGTCACCCAGGCTGGAGTGCAGTGGCACGAACCTCTGCTCACTGCAACCTTCACCTCCCAGGTTACGGGAGATGT
GCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAG
TACTTGAAAACACTTCCAAAGCTGCCAACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGG
GAAAGGCACTTGATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCCTTCTCTTTTCTGTGATGTGGACATCT
ACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAGGTATTTATCCAGTTCCTT
TCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGATGCAGTCCCTCCCTTGAACAGCAGCTGGTCATAA
AGAAGGAAACTGGATTTTGAGAGACTTTGGATTGGGATGACGTGTGATATCGGTCAGACTTCATCAATATAG
GTGGGTTTGATCTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGCAACC
TCATAGTGGTACGGACGCCCTGTGCGAGGACTCTCCACCTCTGGCATGAGAAGCGCTGCATGGACGAGCTGACCC
CCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCACGCGCCAGCTGGGCAGTGTCTGGTGT
TCAGGCACGAGATAGAGGCTCACCTTCGCAACAGAAACAGAAAGTAGCAAAAAAACATGAACTCCAGAG
AAGGATTGTGGGAGACACTTTTTCTTTCTTTTGCAATTACTGAAAGTGGCTGCAACAGAGAAAGACTTCCATA
AAGGACGACAAAAGAATTGGACTGATGGGTGAGAGATGAGAAAGCCTCCGATTTCTCTGTGGGCTTTTTACA
ACAGAAATCAAAATCTCCGCTTTGCCTGCAAAAGTAACCCAGTTGCACCCCTGTGAAGTGTCTGACAAAGGCAGAA
TGCTTGTGAGATTATAAGCCTAATGGTGTGGAGGTTTTGATGGTGTTTACAATACACTGAGACCTGTTGTTTTGT
GTGCTCATTGAAATATTCATGATTTAAGAGCAGTTTTGTAAAAATTCATTAGCATGAAAGGCAAGCATATTTCT
CCTCATATGAATGAGCCTATCAGCAGGGCTCTAGTTTCAGGAATGCTAAAAATATCAGAAGGCAGGAGAGGAGAT
AGGCCTTATTATGATACTAGTGAGTACATTAAGTAAAAATAAATGGACCAGAAAAGAAAAGAAACCATAAAATATCG
TGTCATATTTTCCCCAAGATTAAACCAAAAATAATCTGCTTATCTTTTTGGTTGTCCTTTTAACTGTCTCCGTTTT
TTTTTTTTTATTTAAAAATGCATTTTTTTCCCTTGTGAGTTATAGTCTGCTTATTTAATTACCCTTTGCAAGCC
TTACAAGAGAGCACAAGTTGGCCTACATTTTTTATTTTTTAAAGAAGATACTTTGAGATGCATTATGAGAACTTT
CAGTTCAAAGCATCAAATTGATGCCATATCCAAGGACATGCCAAATGCTGATTCTGTGAGGCACTGAATGTCAGG
CATTGAGACATAGGGAAGGAATGGTTTGTACTAATACAGACGTACAGATACTTTCTCTGAAGAGTATTTTCGAAG
AGGAGCAACTGAACACTGGAGGAAAAAGAAATGACACTTTCTGCTTTACAGAAAAGGAAACTCATTGAGACTGGT
GATATCGTGATGTACCTAAAAGTCAGAAACCACATTTTCTCCTCAGAAGTAGGGACCGCTTCTTACCTGTTTAA
ATAAACCAAGTATACCGTGTGAACCAACAATCTTTTTCAAACAGGGTGCTCCTCCTGGCTTCTGGCTTCCA
TAAGAAGAAATGGAGAAAAATATATATATATATATATATTGTGAAAGATCAATCCATCTGCCAGAATCTAGTG
GGATGGAAGTTTTTGCTACATGTTATCCACCCAGGCCAGGTGGAAGTAACTGAATTATTTTTTAAATTAAGCAG
TTCTACTCGATCACCAGATGCTTCTGAAAATTGCATTTTATTACCATTTCAAATTTTTTAAAAATAAATAC
AGTTAACATAGAGTGGTTTTCTTCATTCATGTGAAAATTATTAGCCAGCACCAGATGCATGAGCTAATTATCTCTT
TGAGTCCTTGCTTCTGTTTGCTCACAGTAAGCTCATTGTTTAAAAGCTTC

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FIGURE 1262

MESYSVTQAGVQWHELCSLQPSPPRFREMCIEQDGRVHLTVVYFGKEEINEVKGVLENTSKAANFRNFTFIQLNG
EFSRGKGLDVGARFWKGSNVLLFFCDVDIYFTSEFLNTCRLNTQPGKKVFYPVLF SQYNPGIYGHHDVPPLEQ
QLVIKKETGFWRDFGFGMTCQYRSDFINIGGFDLDIKGWGGEDVHLYRKYLHSNLIVRTPVRGLFHLWHEKRCM
DELTPEQYKCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSSKKT

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FIGURE 1263

CCGCTGTTATACGTCACTTCCACGGCTCAGCGTCAGGGAGGAGAGAGAATGTCTTTTCGAGGCGGAGGTCGTGGA
GGCITTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGGC
GGTGGAGGCGGCGGCAATTCAGAGGCGGCGGCAGGGGAGGATTTGGACGAGGGGGTGGCCGCGGAGGCTTTAAC
AAAGGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCTGCATCCCTGTGAAGATGACATA
GTTTGTAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAACAAAGAACAA
ATTGGAAAAGTGGATGAAATATTTGGACAACCTCAGAGATTTTTATTTTTTCAGTTAAGTTGTCAGAAAACATGAAG
GCTTCATCCTTTAAAAAACTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCT
CGACCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGC
AGAGGTGGTGGCAGAGGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGGCTTCAGAGGAGGAAGAGGT
GGTGGTTTCAGAGGGAGAGGACATTAAGTGAACAGTTGACAGACATCACCAGTTGACTTCTGCATTAACTGCA
TGATCTGTTTCTACTATGGATTGGAACTTGTTTCTTGAACAAGTCTTGAAGATCTTGGTCATTTTATGACAATG
GATCTAAAATGTCAGCATCATGCAAAGTGCAACGGAATAGTGAATTTTGCTCTAAAAGAGCATGAACAAGTCITT
CTAATGTTTTGTACAGTGCCTGGCACTCTGTGGTGCTCAATAAATGGATAGGAGTTTTTCATTTGAAGCATATTT
GAATTTTTAAAATAAAGTGTTTTATTCCCTTAAAAAAAAAAAAAA

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FIGURE 1264

MSFRGGGRGGFNRRGGGGGFFNRGGSSNHFRGGGGGGGGNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVVLLGE
FLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKKLQKFYIDPYK
LLPLQRFLPRPPGEKGPPRGGGRGGRRGGGGRRGGGRGGGRGGFRGGRRGGGGGRGGRRGGGRGRGH

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FIGURE 1265

ATGCTGCTGAAAGAGTACCGGATCTGCATGCCGCTCACCGTAGACGAGTACAAAATTGGACAGCTGTACATGATC
AGCAAACACAGCCATGAACAGAGTGACCGGGGAGAAGGGGTGGAGGTCGTCCAGAATGAGCCCTTTGAGGACCCT
CACCATGGCAATGGGCAGTTCACCGAGAAGCGGGTGTATCTCAACAGCAAACCTGCCAGTTGGGCTAGAGCTGTT
GTCCCCAAAATATTTTATGTGACAGAGAAGGCTTGGAACATTATCCCTACACAATTACAGAATACACATGTTCC
TTTCTGCCGAAATTCTCCATTCATATAGAAACCAAGTATGAGGACAACAAAGGAAGCAATGACACCATTTTCGAC
AGTGAAGCCAAAGACGTGGAGAGAGAAGTTTGCTTTATTGATATTGCCTGCGATGAAATTCCAGAGCGCTACTAC
AAAGAATCCGAGGATCCTAAGCACTTCAAGTCAGAGAAGACAGGACGGGGACAGTTGAGGGAAGGCTGGAGAGAT
AGTCATCAGCCTATCATGTGCTCCTACAAGCTGGTGACTGTGAAGTCTGAGGTCTGGGGGCTTCAGACCAGAGTG
GAACAATTTGTACACAAGGTGGTCCGAGACATTCTGCTGATTGGACATAGACAGGCTTTTGCATGGGTTGATGAG
TGGTATGACATGACAATGGATGAAGTCCGAGAATTGAAACGAGCCACTCAGGAAGCCACCAACAAGAAAATCGGC
ATTTTCCCACCTGCAATTTCTATCTCCAGCATCCCCCTGCTGCCTTCTTCCGTCCGCAGTGCGCCTTCTAGTGCT
CCATCCACCCCTCTCTCCACAGACGCACCCGAATTTCTGTCCGTTCCCAAAGATCGGCCCGGAAAAAGTCTGCC
CCAGAACTCTCACACTTCCAGACCCTGAGAAAAAAGCCACCCTGAATTTACCGGCATGCACTCTTCAGATAAG
CCATGTCGGCCCAAATCTGAGTAACTTTATATAAATATCTCATGGGGTTTTATATTTTCATTTGTTGTTGTT
TTTTTTTAAGAATCTTCTGATAGAGAAAAAGACTGCTTTGTCACTCAAACATGTTTCCTTCGACCTTTCAGTGTG

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FIGURE 1266

MLLKEYRICMPLTVDEYKIGQLYMISKHSHEQSDRGEGVEVVQNEPFEDPHHGNGQFTEKRVYLSKLPSTARAV
VPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHIETKYEDNKGSDNTIFDSEAKDVEREVCFIDACDEIPERY
KESEDPKHFKSEKTGRGQLREGWRDSHQPIMCSYKLVTVKSEVWGLQTRVEQFVHKVVRDILLIGHRQAFWVDE
WYDMTMDEVREFERATQEATNKKIGIFPPAISISSLPLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPRKSA
PETLTLPDPEKKATLNLPGMHSSDKPCRPKSE

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FIGURE 1267

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCGCTGCCGTCCCTGCTGCCTC**AT**GGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAATACATCGCGGAAAGTAAATGTTTGTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCCAGAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTAAATGTTTTGCGATTAAATCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTAAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAAATATATCGGGTTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTCACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTCTTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGTTTGTCCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTTCCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAGACTCTCTTATGATAGAGTGTTCAGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCGTGAAGCATATCTTCAGTGTGCCTTGAACCTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGCACAGTTGTACTCCAGGATTTAGATAAAAAAGAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCT**TAG**TGTTTTAGAGAAATCAAGAATTTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGTATTAATACTTTTTCAATGAAGTGTATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAA

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FIGURE 1268

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVIGSDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLIHEPSAALLAYGIGQDSPTGKSNIIVFKLGGTSLSLSVMEVNSGIYRVLSNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRAF
ELLCSPLEFNKLEAIRGLLDQNGFTADDINKVVLCGGSSRIPKLQQLIKDLFPAVELLNSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSGTPLPARRQHTLQAPGSISSVCLELYESDGKN
SAKEETKFAQVVLQDLDDKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1269

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTAGTTGACA
CACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTACCCGGAAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGAGAACAAAGGAAGGCTGCTACACTAATAGGATGTACCAAGGGCGGAGGAGGATCCAGAAGC
AAACACAAGCAATGCAAGAACTCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAGCAAAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCTTTATTTTGTACGTCTGTTGCGGGAAGATTAAACTTAAATGAAAATCTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGTCTCTCAGGCACTCGTAACTAAGGACCACCATTTGGCCATTGGTAGATGTTTGATTGACTTAAACAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTGAATTCTTCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCCTGTAGCTTCCACTCACTTATTCTTGCATTACAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGAGAAAGAAAGATCAATTCTTTGTTTGCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCCTAGATGAGTGTCAATTTATTTAATTCCATTGTATATAAGGAGTCAAATTTGTTTC
TTATCATTTGTTTCAATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCAATTAATAATGATCCC
CAAATGCTGAAAAAGTGAAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTAGCTGTATCTGTA
GAAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACACTTCTGCCCCCACT
GCATTGAATTTTTTGTCTTAAGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 1270

MAAQYGSMSFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARSFMI
LIFTRKDDLGDNLHDYLRAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRRKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 1271

AGTCGCCTGGAAGCGTCCGCCCAAGGTCGCGGGCCGCTTGGGGAGTCAGCAGCGCGCCAGGCCCTTCGGGCCCC
ACACGCATTAGGTGCCTTCTTGATGGGTACGGAGTGAACGCGGGCGGCGGGACCGAGGCAGCGCCAGTTTG
TAACCGCCGCGCGCCCGTGCCTGCGCGCGCCACACCCAGCGCGCTTCCGGCCGGGCCACGTGACCGCGCGTGC
ACGTGTTCCGGCCTCTCCGCTTCGCGCTCCGAACCTCCTCCTGGTCGTCGCCGATTCCGTCCACGCGGAGCCGG
CTTGGGCGGGGCCCGGAGGCGGCGCGGAGAGAAGCCGCGGAGACGCGAGCGCCGAGCGTCGCGAGGGAGCAGGC
CCGGGCAGGCAAGCGCGGCCCTCCGCCATGAACCCAGGGCCCTGTTCCAGGACTTCAACCCAGTAAGTTTCTCA
TCTACACCTGCCTGCTGCTCTTCTCGGTGCTGCTGCCCCCTCCGCTGGACGGCATCATCCAATGGAGCTACTGGG
CCGTCTTGCCCCCATATGGCTGTGGAAGCTTCTAGTCGTGCGAGGCGCCTTCGTGGGCGCGGGCGTTTGGGCCC
GCAACCCTCGCTACCGCACCGAGGGAGAGGCCTGTGTGGAGTTCAAAGCCATGCTGATCGCTGTGGGCATCCACC
TGCTGCTGCTCATGTTTGAAGTCTTGGTCTGCGACAGGGTGGAGAGGGGCACCCACTTCTGGCTGCTGGTCTTCA
TGCCTCTCTTCTTCTGTTCCCGTGTCCGTGGCTGCCTGCGTCTGGGGCTTTTCGACACGATAGGTGCTGGAGC
TGGAGATCCTGTGCTCGGTCAACATCCTGCAGTTTCTTCTATCGCCCTAAAGCTGGACAGGATTATTCAGTGGC
CGTGGCTGGTGGTGTGTTGTGCCCCCTGTGGATCCTCATGTCGTTCCCTTTCCTGGTCTGCTCTTATTACATCGTCT
GGTCCCTCCTGTTCTGCGGTCCCTGGATGTGTTGCGGAGCAGCGGAGAACACACGTGACCATGGCTATCAGTT
GGATAACGATTGTGCTGCTCTGCTCACTTTTGAGGTCTGCTGGTTACAGATTGGATGGCCACAATACATTCT
CCTACGCTCTCCATATTTGTCCCCCTCTGGCTTTCCCTTACTAACTTTAATGGCCACAACATTTAGGCGAAAGGGG
GCAATCATTGGTGGTGTGGCATTCGCAGAGACTTCTGTGAGTTTCTGCTTGAATTTTCCATTTTAAAGAGAAT
ATGGGAACATTTTCATATGATCTCCATCACGAAGATAGTGAAGATGCTGAAGAAACATCAGTTCCAGAAGCTCCGA
AAATTGCTCCAATATTTGGAAAGAAGGCCAGAGTAGTTATAACCCAGAGCCCTGGGAAATACGTTCCCCCCCCCTC
CCAAGTTAAATATTTGATATGCCAGATTAACTCCTAGAGAGGACCCAGGCACACACAGACTCCACTTGGCCTTCG
CCTCTTGTTTCATTCATCCCAAACCTGGAAATGGAAACAGGCTTCAAACTCGTCTCACGCCGTGTTTGAGATCA
CCGCCTCATCAGTAIGCATCATAGATGGAGATGGTTTCAGTATGTGGGTGTGTGTGATGTGTACCTGGGTAAAG
ACTTGCTTTCCAGGTTTCGCACTTTTCAAGGTGTAGCTGGGGGCAGTAAGTCGAATTGTTTTAGTAGGTCTCAAAG
GAATAACCACACAGCTGTTTGTGTTAAATGCTACTGTACCTATCAAACTATTGTTTAAAAAGTATTTTTATACAC
TGCTAATCTAAAATTGTATTTAGATTGTGCCTGTCATAACAATAGCAAATGTAAAAAGTTCAAAAAAAAAAAAA
AAAAAA

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FIGURE 1272

MLIAVGIHLLLLMFEVLVCDRVERGTHFWLLVFMPLFFVSPVSVAACVWGFRHRSLELEILCSVNILQFIFIAL
KLDRIIHWPWL VV FVPLWILMSFLCLV VLYYIVWSLLFLRSLDVVAEQRRTHVTMAISWITIVVPLLTFEVLLVH
RLDGHNTFSYVSIFVPLWLSLLTLMATTFRRKGGNHHWFGIRRD F CQFLLEIFPFLREYGNISYDLHHEDSEDAE
ETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPPKLNIDMPD

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FIGURE 1273

GTGTTTTCTGCGTGAGAGGAAAAGATGCTAGAACCACAGGAGAATGGCGTGATTGACCTACCAGATTATGAGCAT
GTAGAAGATGAACTTTTCCCTCTTTCCACCTCCAGCCTCTCCAGAGAGACAAGATGGTGAAGGAACTGAGCCT
GATGAAGAGTCAGGAAATGGAGCACCTGTTCTGTACCTCCAAAGAGAACAGTTAAAAGAAATATACCCAAGCTG
GATGCTCAGAGATTAATTTTCAGAGAGAGGACTTCCAGCCTTAAGGCATGTATTTGATAAGGCAAAATTCAAAGGT
AAAGGTCATGAGGCTGAAGACTTGAAGATGCTAATCAGACACATGGAGCACTGGGCACATAGGCTATTCCCTAAA
CTGCAGTTTGAGGATTTTATTGACAGAGTTGAATACCTGGGAAGTAAAAGGAAGTTCAGACCTGTTTAAAACGA
ATTGCACTTGATCTCCCTATTTTACATGAAGATTTTGTTAGCAATAATGATGAAGTTGCGGAGAATAATGAACAT
GATGTCACCTTCTACTGAATTAGATCCCTTTCTGACAACTTATCTGAAAGTGAGATGTTTGCTTCTGAGTTAAGT
AGAAGCCTAACAGAAGAGCAACAACGAAGAATTGAGAGAAATAAACAACCTGGCCTTGGAAAGAAGGCAGGCAAAG
CTGCTGAGTAATAGTCAGACCCTAGGAAATGATATGTTAATGAATACACCCAGGGCACACAGGTTGAAGAGGTT
AATACTGATGAGGATCAAAAGGAGGAGTCAAATGGATTAAACGAAGACATTCTGGACAATCCATGTAATGATGCT
ATTGCCAATACTTTAAATGAAGAGGAAACACTGCTGGACCAGTCTTTTAAAAATGTGCAACAGCAACTTGATGCT
ACATCCAGAAATATTACTGAAGCTAGATAAGTTTCCATTAAGAGAAAATGTATCTGTTAAGTCATCGTCCTGCAA
GCTTGGCGTTACTATGTATTTTTTTCTTCTTGGAGTGAAAATCCTTAGATAGTAAACTGTTATAGATTATTGTTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MLEPQENGVIDLPDYEHVEDETFFPPFPPASPERRQDGEGETEPDEESGNGAPVPVPPKRTVKNIPKLDAQRLISE
RGLPALRHVFDKAKFKGKGHEAEDLKMLIRHMEHWAHRLFPKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPIL
HEDFVSNNDEVAENNEHDVISTELDPFLTNLSESEMFASELSRSLTEEQQORRIERNKQALALERRQAKLLSNSQTL
GNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNPCNDIAIANTLNEEETLLDQSFKNVQQQLDATSRNITEA
R

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FIGURE 1275

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCCGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGCCATACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCCTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTTGAAGGGGCTGAGCCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGCACAAGACAGACTTGGCAGCCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTTGAACCTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAAGGACTGAGGCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCATACTGTTACCCATAAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1276

MKQESAAPNTPPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLEDHEGCTWGVAYVQVQGEQVSKALKYLVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMPCFCPTAQALALV

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FIGURE 1277A

TGAGGGAAGAAGAGGAAGCGGGAGGAGCTTGGCTTCTCGCGTATTGAGGACAGCCCATCTCCCTTCAAGAACC
CTACGGAGAGTCGGACTGCATCTCCGCAGCGAGCTCTTGGAGCGCCGCCGGGGAGGCGAAGGATGCGAGGCGG
CTCCGCGCGCCGGCTGCGGGGAGCGCTCCTGCTGTGGATTGTTCAGCAGCTGCCTCTGCAGAGCCTGGACGGCTC
CCTCCACGTCCCAAAAATGTGATGAGCCACTTGTCTCTGGACTCCCCATGTGGCTTTCAGCAGCTCCTCCTCCA
TCTCTGGTAGCTATTCTCCCGGTATGCCAAGATAAAACAAGAGAGGAGGTGCTGGGGATGGTCTCCATCAGACA
GCGACCATTATCAATGGCTTCAGGTTGACTTTGGCAATCGGAAGCAGATCAGTGCCATTGCAACCCAAAGGAAGGT
ATAGCAGCTCAGATTGGGTGACCAATACCGGATGCTCTACAGCGACACAGGGAGAACTGGAAACCCATATCATC
AAGATGGGAATATCTGGGCATTTCCCGGAAACATTAACCTCTGACGGTGTGGTCCGGCAGCAATTACAGCATCCGA
TTATTGCCCCGTATGTGCGCATAGTGCCCTGATTGGAATGGAGAAGGTGCGATTGGACTCAGAATTGAAGTTT
ATGGCTGTTCTTACTGGGCTGATGTTATCAACTTTGATGGCCATGTTGTATTACCATATAGATTACAGAAACAAGA
AGATGAAAACATGAAAGATGTCAATGTCCTTGAACCTTAAAGACGTCTGAAAGTGAAGGAGTAATCCTGCACGGAG
AAGGACAGCAAGGATTACATTACCTTGAACCTGAAAAAGCCAAGCTGGTCTCAGTTTAACTTAGGAAGCA
ACCAGCTTGGCCCCATATATGGCCACACATCAGTGATGACAGGAAGTTTGTGGATGACCACCACTGGCACTCTG
TGGTCATTGAGCGCCAGGGGCGGAGCATTAACTCTGACAGGAGCATGCAGCACTTCCGTACCAATGGAG
AGTTTGACTACCTGGACTTGGACTATGAGATAACCTTTGGAGGCATCCCTTTCTCTGGCAAGCCAGCTCCAGCA
GTAGAAAAGAATTTCAAAGGCTGCATGGAAGCATCAACTACAATGGCGTCAACATTACTGATCTTGCCAGAAGGA
AGAAATTAGAGCCCTCAAATGTGGGAAATTTGAGCTTTTCTGTGTGGAACCCATACGGTGCCTGTCTTTTTCA
ACGCTACAAGTTACCTGGAGGTGCCCGGACGGCTTAAACCAGGACCTGTTCTCAGTCAGTTTCCAGTTTAGGACAT
GGAACCCCAATGGTCTCCTGGTCTTCACTACTTTGCGGATAATTTGGGCAATGTGGAGATTGACCTCACTGAAA
GCAAAGTGGGTGTTTCAATCAACATCACACAGACCAAGATGAGCCAAATCGATATTTCTCAGGTTCTGGGTGA
ATGATGGACAGTGGCAGAGGTTTCGCTTCTAGCCAAGGAAAATTTGCTATTCTCACCATCGATGGAGATGAAG
CATCAGCAGTTTGAACCTAATAGTCCCTTCAAGTTAAACTGGCGAGAAGTACTTTTTGGAGGTTTTCTGAACC
AGATGAATAACTCAAGTCACTCTGCTCTCAGCCTTCAATCCAAGGATGCATGCAGCTCATTCAAGTGGACGATC
AACTTGTAATTTTATACGAAGTGGCACAAAGGAAGCCGGGAAGTTTCGCAATGTCAGCATTGACATGTGTGCGA
TCATAGACAGATGTGTGCCAATCACTGTGAGCATGGTGGAAAGTGTCTGCAAAACATGGGACAGCTTCAATGCA
CTTGTGATGAGACAGGATACAGTGGGGCCACCTGCCACAACCTCTATCTACGAGCCTTCTGTGAAGCCTACAAAC
ACCTAGGACAGACATCAAATTATTACTGGATAGATCCTGATGGCAGCGGACCTCTGGGGCCTCTGAAAGTTTACT
GCAACATGACAGAGGACAAAGTGTGGACCATAGTGTCTCATGACTTGAGATGCAGACGCCTGTGGTTCGGCTACA
ACCCAGAAAAATACTCAGTGACACAGCTCGTTTACAGCGCCTCCATGGACCAGATAAGTGCCATCACTGACAGTG
CCGAGTACTGCGAGCAGTATGTCTCTATTTCTGCAAGATGTCAAGATTGTTGAACACCCAGATGGAAGCCCTT
ACACTTGGTGGGTTGGCAAAGCCAACGAGAAGCACTACTACTGGGAGGCTCTGGGCCTGGAATCCAGAAATGTG
CCTGCGGCATCGAACGCAACTGCACAGATCCCAAGTACTACTGTAAGTGCAGCGCGGACTACAAGCAATGGAGGA
AGGATGCTGGTTTCTTATACATAAAGATCACCTGCCAGTGAGCCAAGTGGTGGTGGAGATACTGACCGTCAAG
GCTCAGAAGCCAAATTGAGCGTAGGTCTCTGCGCTGCCAAGGAGACAGGAATTATTGGAATGCCGCTCTTTCC
CAAACCCATCCTCTACCTGCACTTCTCTACTTTCCAAGGGGAACTAGCGCTGACATTTCTTTCTACTTCAAAA
CATTAAACCCCTGGGGAGTGTCTTGAATAATATGGGAAAGGAAGATTTCAATCAAGCTGGAGCTGAAGTCTGCCA
CAGAAGTGTCTTTTCAATTTGATGTGGGAAATGGGCCAGTAGAGATTGTAGTGAGGTACCAACCCCTCTCAACG
ATGACCAGTGGCACCAGGCTACTGCAGAGAGGAATGTCAAGCAGGCCAGCCTACAGGTGGACCGGTACCGCAGC
AGATCCGCAAGGCCCAACAGAAGGCCACACCCGCTGGAGCTCTACAGCCAGTTATTGTGGGTGGTGTGGGG
GCCAGCAGGGCTTCTGGGCTGCATCCGCTCCTTGAGGATGAATGGGGTGACACTTGACCTGGAGGAAAGAGCAA
AGGTACATCTGGGTTTATATCCGATGCTCGGGCCATTGCACCAGCTATGGAACAACTGTGAAAATGGAGGCA
AATGCCTAGAGAGATACCACGGTTACTCCTGCGATTGCTCTAATACTGCATATGATGGAACATTTTGCACAAAG
ATGTTGGTGCATTTTGAAGAAGGGATGTGGCTACGATATAACTTTAGGCACCAGCAACAAATGCCAGAGACT
CCAGCAGCAGAGTAGACAACGCTCCCGACCAGCAGAACTCCACCCGGACCTGGCACAGGAGGAGATCCGCTTCA
GCTTACGACACCACCAAGGCGCCCTGCATTCTCTCTACATCAGCTCCTTACCACAGACTTCTTGGCAGTCTCTG
TCAAACCCACTGGAAGCTTACAGATTGATACAACCTGGGTGGCACCCGAGAGCCATACAATATTGACGTAGACC
ACAGGAACATGGCCAATGGACAGCCCCACAGTGTCAACATCACCCGCCAGAGAAGACCATCTTTCTCAAGCTCG
ATCATTATCCTTCTGTGAGTTACCATCTGCCAAGTTTATCCGACACCCTTCAATTCTCCCAAGTCGCTCTTTC

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FIGURE 1277B

TGGGAAAAGTTATAGAAACAGGGAAAATTGACCAAGAGATTACAAAATACAACACCCCAGGATTCACTGGTTGCC
TCTCCAGAGTCCAGTTCAACCAGATCGCCCTCTCAAGGCCGCTTGAGGCAGACAAACGCCTCGGCTCACGTCC
ACATCCAGGGCGAGCTGGTGGAGTCCAACATCGGGGGCTCGCCGCTGACCCTCTCCCCATGTCTCCGCCACCG
ACCCCTGGCACCTGGATCACCTGGATTGAGCCAGTGCAGGATTTTCCATATAATCCAGGACAAGGCCAAGCTATAA
GAAATGGAGTCAACAGAACTCGGCTATCATTTGGAGGCGTCATTGCTGTGGTGATTTTACCATCCTGTGCACCC
TGGTCTTCCTGATCCGGTACATGTTCCGCCACAAGGGCACCTACCATAACGAAGCAAAGGGGGCGGAGTCGG
CAGAGAGCGCGGACGCCGCATCATGAACAACGACCCCACTTCACAGAGACCATTGATGAAAGCAAAAAGGAAT
GGCTCATTTGAGGGGTGGCTACTTGGCTATGGGATAGGGAGGAGGAATTACTAGGGAGGAGAGAAAGGGACAAA
AGCACCTGCTTCATACCTCTTGAGCACATCCTTAAATATCAGCACAAGTTGGGGGAGGCAGGCAATGGAATATA
ATGGAATATTCTTGAGACTGATCACAACAAAAACCTTTTAAATATTCTTTATAGCTGAGTTTCCCTT
CTGTATCAAAACAAAATAACAAAAATGCTTTTAGAGTTTAAAGCAATGGTTGAAATTTGTAGTACTATCTGT
CTTATTTGTGTGTGTTTAGAGGTGTTCTAAAGACCCGTGGTAACAGGGCAAGTTTCTACGTTTTTAAGAGCCC
TTAGAAGCTGGGTATTTTTTCTTGAGAAAAGCTAATGCACCTACAGATGGCCCCAACATTCTCTCCTTTTG
CTTCTAGTCAACCTTAATGGGCTGTTACAGAAAGCTAGTTTCGTGTTTATATACTATTTCTTTTGATGTCCTATAAG
TCGGAAAAGAAAGGGGCAAGAGAACCTATTATTGCCAGTTTTTAAGCAGAGCTCAATCTATGCCAGCTCTCTG
GCATCTGGGGTTCCTGACTGATACCAGCAGTTGAAGGAAGAGAGTGCATGGCACCTGGTGTGTAACGACACAATC
AGCACAACCTGGAGAGAGGCATTAAAGAACCAGGAAGGTAGTTTGATTTTTTCATTGAATTCTACAAGCTAATATT
GTTCCACGTATGTAGTCTTAGACCAATAGCTGTAACTATCAGCTGCAATACCATGGTGACCAGCTGTTACAAAAG
ATTTTTTCTGTTTTATCTGAAACATACTGGATTATATATGTATAAGCGCCTCAATGGGGAATTAGAGCCAGAT
GTTATGATTTGTTTGCTCTTTTTCTTTTATAGTTATAGCAAAAATATGGATAATTTCTAGTGAATGCATAAATTA
GGTTGCGTTTCTTATTTTGCTTTAAATCTCGGTAGTTTTTCCACCCCTGTGACACAATCCTAATAGACAGTGTC
CTGTAAATGGACACAACACAATAAAGTCAAGTTATTATTGCTGTTACTCTGGATGATATGGAAAACACTGCCATA
TTTTAAATCAACTACTCCAGTGTTTTTCCATCCAATCACACTGCTGTGATTACAGGATCTTTCTCTAAAACGG
ACACATTTGAACCTCAGGTTCTACACAAACCTGGTACCTGTTGCTTCCAGAGGATGGAGAAGTGTAGTTAATCA
CACCTCTTAGTTTAAATCTGAAATCTTGACCCAGTTATTTAACAATAAATACCTCATTGATTATTTAAAAAGTA
ATACACTTCTGTAAACAAATGGGGACAATGCATCCAAAAATCTTTTAAACAGATTACACAAAATTTATTTCC
AGAAAGGCTACCATTTATCATCATTATATTTCAAGCCTCTTATACCTAATAAGCACTTTCTAAAAGTCTTGAGA
TCCACCATTTCTGAGGAATTCAATATGATCACTTTTTCTTCTTTGCTGGGAGAGGTTAAGAGGCGGTTTCGAA
GGTATAGATGCTATTGTTCTGATGGCCCGCTGAATAAAATGGAAATTTCTAGTTTGTGTAATTATGCATTCTTT
TTCAAGATTCTCAGTGTGCCTAATTATTGGAGCACATCAGTTTCTGGGTAATGGAAAACATTACCTAGAGTTG
CCAGTGGCACATTACACAGTACAGAGCACATTTCCAAAGGAGACATTGGACCAGTTAATCCCATACAAGTCAAG
GTAACAGAACAAAAGGGAATCCTGATGCCCTTTTACCATTGCTGGTTGAGCTCAGGCACTGTCTGACACCCCTT
AATTTTAAAGGTTTTAATCATTCTCTATAAAATACATTTAAATGGAAAAATACTTAATATCACTAAATATCA
GAACAATGTAACATTTACAAATGACATATTGAAAGCAAAGGCTGTTTTATTTAGCCAAGATGATTACCATTAGGA
GTTACTTTATGTATTGTTGAAAGCAAATTTTAAACATGATGTTTTAGAAGTGTCTGATTTTTAAACCTGGTTT
ACAGGTATTACTTCTGCATTACCAATAATGCCAGATGGAAATTTATTATTTCTTGCAATTCCTGTAGCTC
TGTTCTTTATGCATTGTCTCAACACTTTCCCTTTTTTCCCAAATGAGTAGAGAATTAAAGCCACCCAAAACAGC
TTCTGCTACTAAAAATGTTCTCATCCTTTCTCTCCCTCTCCTTTTCTGCCACAAAAGGTGAAAAATGAGATCCA
ATCCTCTCACCAAAATTTCAAACCTAGGACACTGGAATGACTGCAGGGATCAGTGGTTCTCCCATATCACCATCA
ATTAAGACATATAGGACACTGTCTTCTTCAAGAGGGTTACAATGTGGCCATCAGACAGGAAACCAACGGTGGA
TAAAGTATTAAGTAACTAAGTGCCAAATAAATGCTGGAAATCTTGACCTCTCTTGGGATTATGGGTGTAACAAA
AATCCCTACATCTGTTTATGAAGGCCATATTCAGTACATTTTAAATGGTAAATAATCTGTTTATGTGAAGAAAA
GAATTAAGTCTTTCTTCAACTCTCTCCTTGATAGCCTAGCACAGTGCAGCCTCCATAACCATGACATTCCCGC
CCAAGCTCTCAGTGCCTAATCCTGCTTTGTCACTTACATCTCACAAAATCTTGACATCTTACATTCCAATACATT
ATCAAGCAAGCACAAAGTATGCTGGTAGTGCCTCTTTAAATAATATGTATAGACAACAACGACAAAAAATAG
ACTGTTTTAAAGTTTCAGGGAAAGTTGGTGGCTGATTTAAAGTTGTGCAGGAAACATCTCTGTGTATGAAGCAA
ATGTGCGATGTTTTGAAAAGCTAGGAGATGACTTTGAATGAATGCAAGGTTAGTGAGATCTAAGCTCTCAAAATA
GCATATTCCTAGAGCTCAAGAAAGCTGGTCCAGGAGGTTGAAAAGCTATTTTGTGTGTAATTTTCTGGC

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FIGURE 1277C

CCTTCTTAATATTTAAAAATGTATTTCCCTTGTGGCTTTCAACCACCTGCTCAAAAAAGAGACTTGTTACATG
AAAGTTTTTCATTAAAGAGCTGAAAACAAGAATTTAGAGAGCCATTCCCTAGAAAATGTCCTACTGCCCTGCATTG
ACAAACAAGCATCCITTTACTAACAAGAGCAGGAATTCAGAGGCACAAGAAAAAGCATTGGCATGAGCCAAAGAGT
CTGTCTTAAIGTTACTTTTTGAAAATCTGCTGAGCGGCCACCATATGCAGGCTGAGAGCTGGGCACAGGCCAAGCC
ATTGGAAGCACTTCAGGAACAAGCACACAGCTGTGGGACTTGAACATGCAAGTGTTTCAGGTTGTGTCAAGAAGCT
TTTCTTTTCCTTCTATGATGGAATCTGTTCTTTTCTATCCTACTTTTTTCTCTCTTCTCCTCACCACATTATA
CCCTGCTCTTACGCAGTAAACGTTTTTAATGGCCCGTTTATGTCTCATGCCTCCAAACAACACTGAATTTGAAACC
CCCCATTTTTTCTTTTCACCACCCTGTTGAGCAATTTTCCCAAAAAAGGGCAGCAATTATTAAATTGAATTCAA
GTTTCTAGATTTTACTAAGTTTTATTTTGTGAGGTTTTTTAAATTTTTTCAGTGAGCGTGGTGACTGCAGAGGTT
AGTGCTGTGAAAAGCTGGGCTAAATATTCTTTCTGTAAAGTCAAACAGGATTCCATCCCCTGTGAAATAACACAA
AATTTCACTCTCTAAAAGCAACAGCATGTAACTAGAATGAAAGAAGGAAATTATGTACGTATGCCTAATATTCT
TTGTGAATGTCTTTCAATTAATAAATTATATTAGAAACCAGATTGATAAATAAAAAATTCAAAGTAGTTTTAA
TTATCCT

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FIGURE 1278

MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDPLVSGLPVAFSSSSSSISGSYSPGYAKINKRGGAGGWS
PSDSHYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYHQDGNIAWAFPGNINSDGVVRHEL
QHPIIARYVRIVPLDWNAGEGRIGLRIEYVGCYWADVINFDDGHVVLPRFRNKKMKTLKDVIALLNFKTSESEGI
LHGEQOQGDYITLLEKKAKLVLSNLGSLNQLGPIYGHSTVMTGSLDDHHHWSVVIQRGRSINLTLDLRSMQHFR
TNGEFDYLDLDYEITFGGIPFSGKPSSSSRKNFKGCMESINYNGVNITDLARRKKLEPSNVGNLSFSCVEPYTVP
VFFNATSYLEVPGRLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVGHVHINITQTKMSQIDISSG
SGLNDGQWHEVRFLAKENFAILTIDGDEASAVRTNSPLQVKTEGYFFGGFLNQMNSSSHSVLQPSFQGCMLIQ
VDDQLVNLYEVAQRKPGSFANVSIDMCAIIDRCVPHNCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCE
AYKHLGQTSNYYWIDPDGSGPLGFLKVYCNMTEDKVWTIVSHDLQMQTPVVGYNPEKYSVTQLVYSASMDQISAI
TDSAEYCEQYVSFYCKMSRLNTPDGSPYTWVVGKANEKHYYWGGSGPGIQKACAGIERNCTDPKYCNCADADYK
QWRKDAGFLSYKDLPLVSVVVDGTDQRQSEAKLSVGPLRCQGDRLNYWNAASFNPSSYLHFSTFQGETSADISF
YFKTLTPWGVFLENMGKEDFIKLELKSATEVSFSFDVGNPVEIVRSPTPLNDDQWHRVTAERNVKQASLQVDR
LPQQIRKAPTEGHTRLELYSQLFVGGAGGQOGLGCIIRSLRMNGVTLDLEERAKVTSGFISGCSGHCTSYGTNCE
NGGKCLERYHGYSCDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPATNARDSSSRVDNAPDQONSHPDLAQEE
IRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLGGTREPYNIDVDHRNMANGQPHSVNITRHEKTIF
LKLDHYPSVSYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNQIAPLKAALRQTNAS
AHVHIQGELVESNCGASPLTLSPMSSATDPWHLHDLSASADFPYNPGQGQAIRNGVNRNSAIIGGVIAVVIFTI
LCTLVFLIRYMFRRHKGTYHTNEAKGAESAESADAAIMNNDPNFTETIDESKKEWLI

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FIGURE 1279

AAAAACAACCATTTCTCTCTGCTGAGAGCCAGGGAAGGCGAGCTCTGCGCACACGGGCGTCCCTGCAGCAGCC
ACTCTGCTTTCCAGGACCGGCCAACTGCCCTGGAGGCATCCACACAGGGGCCAGGCAGCACAGAGGAGCTGTGA
ACCCGCTCCACACCGGCCACCCTGCCCGGAGCCTGGCACTCACAGCAGGCCGGTGCTAAGGAGTGTGGCGCGGGC
TCGACTCCCACTGCTGCGCGCCTCCCGAGTGACTCTGTTTTCCACTGCTGCAGGCGAGAAGAGGCACGCGCGGCA
CAGGCCGGCCTCCGCTTCCCGGAAGACGGCGCACTCCTGGCCCTGGGTTCTTGCTGCTGCCCACCCTCTGCTCC
CTGGGATGGGCCCCGAGGCGAGCAGCTTCAGCACAGGCCTGGCCCTGCTCCAGGTGCAGGAAGGAGGATAAGGCC
GGGCCGAGAGGCGGCACACCTGGACCATCCCATGGCCCTCCGCCCGCGCCGCCCGAGGATGAGTGGTGTATGCTCC
TCTAGCCACCCTAGCAGCGTCGGCTCTCCCTGGACGTGCGGCCGCGGACTGGGACTTGGCTTTCTCCGGATAAG
CGCGCGCACCGGCGCTCAGCGATGACCGTGCAGAGACTCGTGGCCGCGGCCGTGCTGGTGGCCCTGGTCTCACTCA
TCCTCAACAACGTGGCGGCCTTCACTCCAACCTGGGTGTGCCAGACGCTGGAGGATGGGCGCAGGCGCAGCGTGG
GGCTGTGGAGGTCTGCTGGCTGGTGGACAGGACCCGGGGAGGGCCGAGCCCTGGGGCCAGAGCCGGCCAGGTGG
ACGCACATGACTGTGAGGCGCTGGGCTGGGGCTCCGAGGCAGCCGGCTTCCAGGAGTCCCAGGCACCGTCAAAC
TGCAGTTGACATGATGCGCGCCTGCAACCTGGTGGCCACGGCCGCGCTCACCGCAGGCCAGCTCACCTTCCTCC
TGGGGCTGGTGGGCTGCCCCCTGCTGTCAACCGACGCCCCGTGCTGGGAGGAGGCCATGGCCGCTGCATTCCAAC
TGGCGAGTTTTGTCTGGTCACTCGGGCTCGTGACTTTCTACAGAATTGGCCATACACCAACCTGTCTGGTCTCTG
CTACCTGAACATTGGCGCCTGCCCTTCTGGCCACGCTGGCGGCAGCCATGCTCATCTGGAACATTCTCCACAAGAG
GGAGGACTGCATGGCCCCCGGGTGATTGTCACTAGCCGCTCCCTGACAGCGCGCTTTGCGCGTGGGCTGGACAA
TGACTACGTGGAGTCACCATGCTGAGTCGCCCTTCTCAGCGTTCCATCGATGCACACCTGCTATCGTGGAACAGC
CTAGAAACCAAGGGACTCCACCACCAAGTCACTTCCCTGCTCGTGCAGAGGCACGGGATGAGTCTGGGTGACCT
CTGCGCCATGCGTGCGAGACACGTGTGCGTTTACTGTTATGTGGTCAATGTCTGTACGTGTGCTGGGCCAACCC
TCGTTCTGCCTCCAGCTTTCTGTTAGCGCAACGCGGCTCCACGACCACACGCACTTCAGGGTGGAAGCTGGAA
GCTGAGACACAGGTTAGGTGGCGCGAGGCTGCCCTGCGCTCCGCTTTGCTTTGGGATTAATTTATCTGCATCTG
CTGAGAGGGGCACCCCAGCCATATCTTACACTTTGGTAAAGCAGAAAACCAGGAAAATTTCTTAAATATCCAC
AATATTCTTTGAGTGAGTCAGAATCTATAGCCGGTTAGTGATGGTTTTAGGCAGAATCGTGTTCGTGTCTGTTTT
GCTCGATTCTTTCTAAGTTAAATAAATGCAAGCCTCTGAACTTCTGTCTATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTTRGGPSPGARAGQVDAHDCEA
LGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLLGLVGLPELLSPDAPCWEEAMAAAFQLASFVLV
IGLVTFYRIGHTPTCPGPAT

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FIGURE 1281

GCCCCCGCGCCCCGACCAGCCCGGCTCGGGCAGCCACTCACCGGTGTCCCCGTCCGCGTCTTCCTCCCCGG
GTCCCCGGCCATGGCGCTGAGTGAACCCATCCTGCCGTCTTCTCCACTTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCTGGGCGCGGAGGCCGCCCCGGAGCCGCCGCCGCCGCCGCCGCCCTGCG
TTCTATTACCCGAACCCGGCGCCCCGCCCTACAGCGCCCCCGGGGTGGCTGGTGTCTGAGCTGCTGCGA
CCCGAGCTGGATGCGCCGCTGGGGCCGCACTGCACGGCGCTTTCTGCTGGCGCCGCCGCCGCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGGCGGCTACGGCTGCGCCCCCGGGCTGACCCGTGGACCGCGCGCCCTC
AAGCGCGAGGGCGCCCCGGGCGGCTTCGTGCATGCGAGGTCCCGGGGGCGCCCCCGCGCGCCCGGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCTGCCCGCGCCGGTCCGCGCGCTCCTTCCCGCGCCCTTC
GGTGGCCCTGGTTTCGGCGCGCCCGGGCCCGGCTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGGCGCCGCCCGCGGCTGGGCTGGCGCCCCCGCGCGCGGTCTCCTACGCGCGCTGCG
TCCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCGCGCTCTTGCCCCGCAAACGCACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGCGCTGCGGCTGGAAGTTTGCGCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTAGCCGGGACGCCCCGCCCCACCTGCGGCGGGCGGTGGCGGGTCCACGCG
CCGGGCGCGGCCCCCTCCCAAAGTGTGACTGGTATTTATTGGACCCAGAGAACC GGCGGGGACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGCGCCACCACCCCGCCCCGCTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGATGCGCTTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTGGTTTTTTTTTAAATTAAGTTTGGCATCTTTT

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FIGURE 1282

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEEAPEPPPPPPPAFY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRVLVKAEPPEADGGGGYGCAPLTRGPRGLKRE
GAPGPAASCMRGPGRPPPPDTPPLSPDGPALPAPGPRASFPPFGGPGFGAPGPGGLHYAPPAPFAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRTHTEK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 1283A

GGTCCCCGGCTGCCCGCAGCCCGCTCGCGGCGCTTCTCCGGCCCGCTCCTTCTCCGCTCGTTAACGTCGCCAAC
CCCCCCCACCCCTCATATCTCTCTCCACCCACCCAACCGCCCCCGCTCCTTCTCGCGCCTCGAGTCGCTTGG
GGGAAAACCTTCAAAGAGCCGGATCGCAGGCTCCCTGCCTACTCCCCACCGGGGATTTCAGACTAGACGCTTGAA
GCAAAGCTGCCATCCCAGAAGACGACATGCTCTCAGCAACCCCCCTGTATGGGAACGTTACAGCTGGATGAACA
GCGAGAGGGTCCGCTATGTGTGGGGCGAGCGAAGACAGGAAAATCCTTGTAATGATGGTGACGCTTCAAAAGCCA
GACTGGAACCTGAGGGAAGAGAAATCCCTTGAACCACAACGTGGTGGATGCGAGCACGGCCCATAGGATCGATGGCC
TGGCAGCACTGAGCATGGACCGCACTGGCCTGATCCGGGAAGGGCTGCGGGTCCCGGGAAACATCGTCTATTCTA
GCTTGTGTGGACTGGGCTCAGAGAAAGGTGCGGAGGCTGCCACAAGCACTCTAGGTGGCCTTGGGTTTTCTTCGG
AAAGAAATCCAGAGATGCAGTTCAAACCGAATACACCCGAGACAGTGGAGGCTTCTGCCGTCTCTGGAACCC
CAAATGGCTTCAGTGCTATATACAAAACACCGCTTGAATACAAAAAGTGCTGTAGCCACAGCAGAAGCGCTGG
GCTTGGACAGGCTGCCAGCGACAAACAGAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TCAATCCTTACATGGAGGGTGCCACGCCAGCCATCTACCTTTTCTCGACTCGCCAAATAAGTATTCACTGAACA
TGTACAAGGCTTGTCTACCTCAGCAGTCTACAGCTTGGCCAGCCGCTGTATTCTCCAGTCTGCACCAATGGGG
AGCGCTTTCTCTACCTGCGGCCACCTCACTACGTCGGTCCCCACATCCCATCGTCTTGGCATACCCATGAGGC
TCTCGACACCTTCGGCCTCCCCAGCCATCCCGCTCTCGTCCATTGCGCAGACAAAAGCCTCCCGTGAAGATGG
GCGTCAGCCCTGGGAATCCGTGTTGATTCCCACGCCTATCTCACATCCAGAACAGTAAGCAGCCCAGGGTTCCTT
CTGCCAAGGCGGTACCCAGTGGCCTGCCGGGGACACAGCTCTCTGTTGCCCCCTCGCTCGGCGTCACCCC
GAGTCCACCTTCCCACCCAGCCTGCTGCAGACACCTACTCGGAGTTCCACAAGCACTATGCCAGGATCTCCACCT
CTCCTTCAGTTGCCCTGTCAAAGCCATACATGACAGTTAGCAGCGAGTTCCCCGCGGCCAGGCTCTCCAATGGCA
AGTATCCCAAGGCTCCGGAAGGGGGCGAAGGTGCCAGCCAGTGCCCGGGCATGCCCGGAAGACAGCGGTTCAAG
ACAGAAAAGACGGCAGCTCACCTCCTCTGTTGGAGAAGCAGACCGTTACCAAAGACGTACAGATAAGCCACTAG
ACTTGTCTTCTAAAGTGGTGGATGTAGATGCTTCAAAGCTGACCACATGAAAAGATGGTCCCACGGTCTTG
TTCACAGCAGGGCTGGAAGTGGCTTAGTGCTCTCCGGAAGTGAGATTCCGAAAGAAACACTATCTCTCCAGGAA
ATGGTTGTGCTATCTATAGATCTGAAATCATCAGCACTGCTCCCTCATCTGGGTGGTGGCCGGCCAAAGTCTTA
ACGAAGAGAACAATGGCAAAGCATGTCTGTGAAAACAAGGCATTGGACTGGGCGATACCACAGCAGCGGAGTT
CATCATGCCCCGCGCATGGGCGGCACCGATGCTGTCTACTAACGTTTCAGGGTCAGTGTGAGTGCAGGCCGCC
CAGCCTCCGCATACCCGCCCCCAATGCCAATGCAGATGGCACCAAAACCAGCAGGAGCTCTGTAGAAACCACAC
CATCCGTTATTACGACAGTGGGCCAGCCCCCGCCACTCTGCCAAGCACAGTAGCAGCACCAGCAGCAAGGGCG
CCAAAGCCAGCAACCCAGAACCGAGTTTCAAAGCAAACGAGAACGGCCTTCCACCAAGCTCTATATTTCTGTCTC
CAAATGAGGCATTACAGTCCCCACCAATCCCTACCCAGGAGTTACCTCCCTTACCCAGCCCTGAGGGCATTG
CTGTAAGTCCCTCTCCTTACATGGCAAAGGACCTGTCTACCTCACCCAGTTTGTACCCAATGGCAGTCTGT
TTCTTGGGCACCTTGCCCCAAAGCCTGGGTGCCCTATGGGCTTCCACCGGCCGTCCAGAGTTTGTGACCTACC
AAGATGCCCTGGGGTTGGGCATGGTGCATCCCATGTTGATACCACACAGCCCATAGAGATTACTAAAGAGGAGA
AACCAGAGAGGAGATCCCGGTCCCATGAGAGAGCCCGTTACGAGGACCCAACCTCCGGAATCGGTTTTCCGAGA
TTTTGGAACTAGCAGCACCAAGTTACATCCAGATGTCCCCACCGACAAGAACCTAAAGCCGAACCCCAACTGGA
ATCAAGGGAAGACTGTTGTCAAAGCGACAAGCTTGTCTACGTAGACCTTCTCCGAGAAGAACCAGATGCTAAAA
CTGACACAAACGTGTCAAACCCAGCTTTGCAGCAGAGAGTGTGGCCAGAGCGCTGAGCCCCCAAGCCCTCAG
TTGAGCCGGCCCTGCAGCAGCACCCTGATTTTCATCGCCCTGAGAGAGGAGTTGGGGCGCATCAGTGACTTCCAG
AAACTTATACCTTCAAACAGCCAGTCTTACCGTAAGCAAGGACAGTGTCTGGCAGGTACCAACAAAGAGAACC
TAGGGTTGCCAGTCTCGACTCCATTCTGGAGCCACCTCTGGGGAGCGATGGCCCTGCTGTAACTTTTGGTAAAA
CCCAAGAGGATCCCAAACCATTTGTGTGGGCAGTGCCCCACCAAGTGTGGATGTGACCCCCACCTATACCAAAG
ATGGAGCTGATGAGGCTGAATCAAATGATGGCAAAGTTCTGAAACCGAAGCCATCTAAGCTGGCAAAGAGAATCG
CCAACTCAGCGGGTTACGTGGGTGACCGATTCAAATGTGTCACTACCGAACTGTATGCAGATTCCAGTCAGCTCA
GCCGGGAGCAACGGGCATTGCAGATGGAAGGATTACAAGAGGACAGTATTTTATGTCTACCCGCTGCTTACTGTG
AGCGTGCAATGATGCGCTTCTCAGAGTTGGAGATGAAAGAAAGAGAAGGTGGCCACCCAGCAACCAAAGACTCCG
AGATGTGCAAAATCAGCCCAGCCGACTGGGAAAGGTTGAAAGGAAATCAGGACAAAAGCCAAAGTCGGTCACCC
TGGAGGAGGCCATTGCAGAACAGAACGAAAGTGAGAGATGCGAGTATAGTGTGGAACAAGCACCGTGATCCCT
TTGAAGCCCCAGAGGACAAAGATCTCTCTGTGGAGAAGTACTTTGTGGAGAGGCAGCCTGTGAGCGAGCCTCCCG

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FIGURE 1283B

CAGACCAGGTGGCCTCGGACATGCCTCACAGCCCCACCCTCCGGGTGGACAGGAAACGCAAAGTCTCAGGTGACA
GCAGCCCACTGAGACCACTGCGGAGGAGGTGCCAGAGGACCCTCTGCTGAAAGCCAAACGCCGACGAGTCTCTA
AAGGGCTCCATCCTAAAAACAACGCCACTTGCTGCACCTTAGAGAACGATGGGAGCAGCAGGTGTCCGCAGCAG
ATGGCAAACCTGGCCGGCAAAGCAGGAAGGAAGTGACCCAGGCCACTCAGCCTGAGGCCATTCTCAGGGGACTA
ACATCACTGAAGAGAAACCTGGCAGGAAAAGGGCAGAGGCCAAAGGCAACAGAAGCTGGTCGGAAGAGTCTCTTA
AACCAGTGACAATGAACAAGGCTTGCTGTGTCTCCGGCTCTCCGCCATGAAGAGTCTTTTCATCCACCAGTG
CAGGCGGCAAAAAGCAGGCTCAGCCAAGCTGCGCACCAGCCTCCAGGCCGCTGCCAAACAGCAGAAAAATTAAAG
AAAACCAGAAGACAGATGTGCTGTGTGCAGACGAAGAAGAGGATTGCCAGGCTGCCTCCCTGCTGCAGAAATACA
CCGACAACAGCGAGAAGCCATCCGGGAAGAGACTGTGCAAAACCAACACTTGATCCCTCAGGAGTCCAGGCGGG
GATTGCCACTGACAGGGGAATACTACGTGGAGAATGCCGATGGCAAGGTGACTGTCCGGAGATTAGAAAGCGGC
CGGAGCCCACTTCGGACTATGATCTGTACCAGCAAGCAGGAGCCAAAGCCCTTCGACCGCTTGACGCAACTGC
TACCAGCTCCCACTCCACACAGCTGCCATGTCAAGTTCCCTCAGGAGACCACCAGCTCTCGCCCTATCGCCG
CGGAAGCAGGAGACTTATTGTCAATAAGAAGCTGGCGAGACCCTTCTGCAGCGGCAGCCAGGCTTGCGCTATG
AGGAAGTGTCTGTACTGCTTAGAGAACAAGATTGTGATGTAAATCATCGGGACAACGCAGGTTACTGCGCCC
TGCATGAAGCTGTGTCTAGGGGCTGGCTCAACATTGTGCGACACCTCCTGAATATGGCGCTGATGTCAACTGTA
GTGCCCAGGATGGAACCAAGCCCTCTGCACGATGTGTTGAGAACGATCACTTGGAATTTGTCGACTACTTCTCT
CTTATGGTGTGACCCCACTTGCGTACGTACTCAGGTAGAACCATCATGAAAATGACCCACAGTGAACCTATGG
AAAAGTTCTTTACAGATTATTTAAATGACCTCCAGGGTCGCAATGATGATGACGCCAGTGGCACTTGGGACTTCT
ATGGCAGCTCTGTTTGTGAACCATGATGAAAGTGCTATGATGTTTTAGCCAACCCCCCAGGACCAGAAGACC
AGGATGATGATGACGATGCCTATAGCGATGTGTTGAATTTGAATTTTCAGAGACCCCCCTCTTACCGTGTATA
ACATCCAAGTATCTGTGGCTCAGGGGCCACGAAACTGGCTACTGCTTTCGGATGTCCTTAAGAAATTGAAAATGT
CCTCCCGCATATTTGCTGCAATTTTCCAAACGTGGAATTTGTCACCATTGCAGAGGCAGAAATTTATCGGCAGG
TTTCTGCAAGTCTCTTGTCTCTTGTCTCCAAAGACCTGGAAGCCTTCAACCCTGAAAGTAAGGAGCTGTTAGATC
TGGTGGAATTCACGAACGAAATTCAGACTCTGCTGGGCTCCTCTGTAGAGTGGCTCCACCCCACTGATCTGGCCT
CAGACAACACTACTGGTGAGCAAGCTGGACCCACCATGTACAGTGTGTTATAGTGTAACTCTTGTGCATATGTGTC
ATAATACAACCTATTTCTGTAAAGAAAGGACACTATTACATATGAAAATATCTCTTCTTATATAAGAGAAATTAC
TCCAGTCAGAAGGACTTAGAAACATGTTTTTTTCTTTTAAACTTTTAAGTCAGTTTTATGAAGTTGTTATAAT
GTTTCTTTACTTTTCAATGCACACATGCTTTGGGATACGTTTGTGTTTACTTGGAACATTGTTTCTTTTCTTTT
TTAAGGAGAAAAAAAATGAGTAAAGGAGCTCCACACTTTGACTTAATTTATACAAAGCTCTGATGACAGGCC
ATGACTGTAGAGTGGTCAGAAGTGTGTTGTTGAGGGAGCGAATTCGGGAAGGCACTTGGTGATATAACT
TTGTTTTGTTTACAGAGTACCTGCTCGGGCCAGGTAAATGCTATTGGATGTAATCCAGTAGTGTGTAATATAAAT
TCAAACCATATCCACACACAACATAATTGTATGAACTTTTATATCCTAATTTAAAGCTGTGAAATTAGTTT
TCACGCATCAAACCGGATTGTTTATATGTTTAAACATTTTATGCTCTTATTTAAAGAAGACTTTGAGCTATTTTT
TTCTGTACCCTGTAAATATTGAAAATAACATAATATGTTGAGGTGCTTGGAATGTACATAAACTAAAATT
TTCTGAATCGTGAAAAA

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FIGURE 1284

MPPEARRLIVSKNAGETLLQRAARLGYYEVLVLYCLENKICDVNHRDNAGYCALHEACARGWLNIVRHLLEYGADV
NCSAQDGTPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMTHSELMERFLTDYLNDLQGRNDDASGTW
DFYGSSVCEPDDESGYDVLANPPGPEDQDDDDAYSDFEFEFSETPLLPCYNIQVSVAQG

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FIGURE 1285

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGGCCGCCGCTCCGAGGTCCCGGGCCTCTGTCTCCCGGGCGTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGCCCCGAGCAGTGTTTGGTGTGAAATGTTTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACATTTTACACAAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCACCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCAATTCGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGACAGAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTTATGACAAAGAAGAATTTATTTTGTATATG
AAGAAACCACTGAAGAGAAACGGCATAAAGATGACAAATGAGCCTATTGTTAGTGTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTAATTTCCAGAGAAATGATGTTTGTATAATAAAACAAGCTATGTTTGAAAACCAAATGTAGT
ATCTACCATTTCGTGTTTTAGAAAGGTATGTGAATAAATATGTTTCATGCTAGTATAAGAGTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTCTA
AGTGATATAAATATTTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGACAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTTCCAGATGAGAATCCACAAGCGACTCATTGACTTGCGCAGTCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTCATAAATTGATTACCAGTTGTTAAAAATTTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCCTATGGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1286

MARAVFGVKCFSYSTSLIGLTFLPYIFTQNNaisesvPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVHFQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 1287A

TTGGGAAACCCCTACCTGTCTGTACCTGTAGGTCTTTTCTCTGGGGTCTGGAAGAAGAATCCTTCAATATCTTGCC
CTTCTGGTAATCTGAGAGCAGGGCGAGAAAAGGAAGATCAGAGTTCACCCCTTAAATCTGTAGGTTTTCACTCCC
CCTACTCTCCTTTGCAGTCCCGTGGAGTCTCCATCTGAGCCCTTTCTAGTCCAGGCATCCCCATGTTGGTGGATG
GCCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCTCGGCTCAGCTCTATCCA
TAGATGAAACACGGGCGCATCTGTGTTGAAAGAAAAGATGATGCGCTCGGGGGCGGCTGGTGCTGAACACCA
AGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAGATGAAGGAGGCCATGAGGACCCTGATAT
TCCCACCCAGCATGCACTTTTTCCAGGCCAAGCATCTCATTGAGAGAAGTCAAGTGTAAATATTCTAAGGATGA
TGCCAAAAGGGGCTGCCTTGCACCTCCATGACATTGGCATCGTGACTATGGACTGGCTGGTGAGGAATGTCACCT
ACAGGCCTCACTGCCACATCTGTTTACCCCAAGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCCGTC
CATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGGTTTGATG
ACAGCTTGCTGAGGAATTTCACTCTGGTGACCCAGCACCCGGAGGTGATTTACACAAACCAAAATGTTGCTGGT
CGAAATTTGAAACCATCTTCTTACCATCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGTCTTCC
GGAGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGC
TCAGTGGAGAGCACCATGACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAACTC
ACCTTGAGTTTATTGGAATCAAAATCATTATTTCGGATCACAGATCCAAAGATGTGGCTGTATCGCAGAATCCA
TCCGAATGGCCATGGGGCTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACA
CTGGCCACTCCTTGCGTGACTACAAGGAAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGCTGCCTTACTTCT
TCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACTA
CCAGAATCGGCCATGGATTGCTTTGAGCAAAACCCCCGAGTCAGGACTTACTCCTGGAAAAAGGACATCCCCA
TAGAAGTCTGTCCCATCTCTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACACCCTGTAGCCACTCTGA
TGGCCACTGGGCACCCCATGGTGATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGTCTATGATT
TCTATGAGGTCTTTCATGGGCATTGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACCTA
TCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCA
TAGCAGATGTGGCTACAAAGTGAAGGAGAGCTAGCCAGCCCTCTACAAGCTGTCTTCTTGACACGCTGTCACTT
CCTCTCACTCGTTCTTGAATCAGCTCCATGTGCCCATGAAATCAATGGCCTCTGATGGAGCGACCCTGTGAGAA
GCACCTGGCTGGCTGAGCAAATTCATCCTCTGGAAATATTCTCTCAGCCACAGTGACATTGACCCTCTTGGTT
TTCTCCTCTCTCTGGCCATTCTTCCAGTTTCCCTATTTTCAAGTCTTCTCCTCTCTGATCTCTGTGCTGTTT
CCTCAGGACTCAGTCTGGGCTCTCTTCTATTCTGGTCTCTTTATTTTTTTTATTTTTGTATTTTTTCGAGATGGA
GTTTTGCTCTTGTGTTGCCAGGCTGGAGTACAATGGTGGCATCTCAGCTCAGTGAACCTCCGCCACCCGGGTTCA
GGCAATTCTCTTGATCAGCTCCCGAGTAGTTGGAATTATAGGCATGTGCCACCACACCCAGCTGATTTTTGCA
TTTTTAGTAGAGACAGGTTTTTACCATGTTGGCGAGCTGGTATCCAACCTCTTGACCTCAGGTGATCCACTCGCCC
CTTGGCTCCCAAAGTGTGGAATTACAGGCGTTAGCCACCATGCTGGCCTATTCTGGTCTCTTTAACTCTCTCC
TCTTTATTTCTCTCTCTCTGTACACTTTTCTGGGTGGTCTCATCCATTCTTTGCTTTTTTCATACCAATTA
TTTGTAAATGATTCCACATTTATTTATGCACTTGGAGAGCTCACAGGAATCTCAGAAACTGATGAGGTACAATT
CTGAACCTCAGTCTCTTCCCTTTAAACCTTTCTTTTTCTCTACTTTAATTTTTCTAAAGAGTGTCTTGCTATGT
TGCCCAGGCTGGTCTCCAACCTCAAGTGATCCTCTGCCGAGTCTCCCGAAGTGTGGGATTACTGACATGAGCC
ACCACACTCAGCCCTTTAAACCTTTCCCTGGCCTTTCCCATAGCTGGTGAAGGACACCTCCATCCATTCCACGCA
GTTGCTCAAAGCAGAAATTTTCAAGTGAAGTCTTGATGCTGCGCGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CTCATCTGGACTCCAGCGGTGGCTTCTTGATGCTGCGCGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CAGACTCCAGCGGTGGTGCTCTACCTGCACGCTGTGCCAAGTCCAAGCTACCATACTCTGCTGAGCTATGAC
AACAGCCTCCTCACTGATCTCCCTTTCTTCCCTTTGCCTCCTCCAGCTCATTTTTACAGTGTAGAATGACATT
TTGTTTGTGTTTGTGTTTGTGTTTGTGAGATGGAGTCTCGTTCTGTTGCCAGGGTGGAGTGCAGCGGTGCGATCTC
GGCTCACTGCAACTTCCACTCCCGGTTCAAGCGGATTCTCGTGCTCAGCCTCCTGAGTAGCTGGGATTACAGG
CATGCACCACCATGCCCCGATAATTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCT
CGAACACCTGACTTCGTGGTCCACCCGCTTCGGCTCCCAAAGCACTGGGATTACAGCGGTGAGCCACCCGGCC
TGGCCTAGAATGACTTTTAAAGATCAAATTAATCAGGTCACTCCTTGCTTACAACGCAGTGCCTTTAGAGGT
ACACCCCATGTCTCCACAGGGCATAACAGCATCCGATTAATCTGGATCCATTCCGGCGCTTCTCTCCAGTCAC
CCAGAGGGCCCCAACCCCGGCGGCCCTTTCTTCTCAAATGTCTCGGCTCTATACCGTGCCTGGGTCTTTTCTC

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FIGURE 1287B

TTTCTCTCTGCCTGGAACATTCCCTTCTTTCCCTTTTGTCTTGCCCACTCCTGTTTACCCCTTCAAGTTTCAAGTT
CATGTCACCTGTCTCAGAGAGGTTTTCCCTGTGCTCGCCCTGTTTCTCTCAGGAAGCCTTGCTCTTTTCCATCATGC
CTCTAATCACAGCTTATAATCGGATATTTATTTCTGTGTCTACAGTCTTGCCCTGCCAGACTGTAAGCCCCATGT
GGGCAGGCGCTCATGATTGTTTCTGATTGTTTCACGCAIGCTGCTAACCAGAGCCTGGGCCCCAAGCTAGTTAG
TACTCAATAAACAATGCATTGAAAAAAAAAAAAAAAAAXTA

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FIGURE 1288

MLVDGP SERPALCFLLLAVAMSF FGSALSIDETRAHLLLKEKMMRLGGRLVLNTKEELANERLMTLKIAEMKEAM
RTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVRNVITYRPHCHICFTPRGIMQFRFAH
PTPRPSEKCSKWILLEDYRKRQNVTEFDDSLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVER
DYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQEVAQKFVETHPEFIGIKIISDHRSKDVAV
IAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLRDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDAL
MLNTRIGHGFALSKHPAVRTYSWKDIPIEVCPISNQVLKLVSDLRNHPVATLMATGHPMVISSDDPAMFGAKG
LSYDFYEVFMGIGGMKADLRTLKQLAMNSIKYSTILLESEKNTFMEIWKKRWDKFIADVATK

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FIGURE 1289

CCAAGCTCCAGCTGTTTGTCAAGGCGAGTGAGGACGGGGAGAGCGTGGGTCACTGCCCCCTCCTGCCAGCGGTCTT
CATGGTCTCTGCTCCTCAAGGGCGTACCTTTTACCCTCACCACGGTGGACACGCGCAGGTCCCCGGACGTGCTGAA
GGACTTCGCCCCCGGCTCGCAGCTGCCCATCCTGCTCTATGACAGCGACGCCAAGACAGACACGCTGCAGATCGA
GGACTTTCTGGAGGAGACGCTGGGGCCGCCGACTTCCCCAGCCTGGCGCCTCGTTACAGGGAGTCCAACACCGC
CGGCAACGACGTTTTCCACAAGTTCTCCGCGTTTCATCAAGAACCCGGTGCCCGCGCAGGACGAAGCCCTGTACCA
GCAGCTGCTGCGCGCCCTCGCCAGGCTGGACAGCTACCTGCGCGCGCCCTGGAGCACGAGCTGGCGGGGGAGCC
GCAGCTGCGCGAGTCCCGCCGCCGCTTCCTGGACGGCGACAGGCTCACGCTGGCCGACTGCAGCCTCCTGCCCAA
GCTGCACATCGTCGACACGGTGTGCGCGCACTTCCGCCAGGCGCCCATCCCCGCGGAGCTGCGCGGCGTACGCCG
CTACCTGGACAGCGCGATGCAGGAGAAAAGAGTTCAAATACACGTGTCCGCACAGCGCCGAGATCCTGGCGGCCTA
CCGCCCCGCCGTGCACCCCCGCTTAGCGCCCCACCCGCGCTGTGCGCCAATAAAGGCATCTTTGTGGGAAAAA
AA

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FIGURE 1290

MVLLLKGVFFTLTTVDTRRSEDVLKDFAPGSQLPILLYDSDAKTDITLQIEDFLEETLGPPDFPSLAPRYRESNTA
GNDVFHKFSAFIKNPVPAQDEALYQOLLRALRLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPK
LHIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKEFKYTCPHSAEILAAYRPAVHPR

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FIGURE 1291

TTGCTGAGTACCCAGAGTTGCGAGGAGTTTTTTAACTGATTTAGCCAGGTGGCAATCATGAGTGAATGGATGAAG
AAAGGCCCCCTTAGAATGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACCTCCTTGAAGATGGCAGCATGTCT
GTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAACTATGAATGAAGGGGACCATAGAGTGAGGGAGAAG
CTGATGCATTTGTTTCACGTCTGGAGACTGCAAAGCATAACAGCCAGAGGATCTGGAAGAGAGAAAGAACAGCCTA
AAGAAATGGCTTGAGAAGAACCACATCCCCATCACTGAACAGGGAGACGCTCCAAGGACTCTCTGTGTGGCTGGG
GTCCTGACTATAGACCCACCATATGATCCAGAAAATTGCAGCAGCTCTAATGAGATTATTCTGTCGCGTGTTTTCAG
GATCTTATTGAAGGACATCTTACAGCTTCCCAATTCAGAGGCCAGGAAGTGTGAACATACTGATAGAAAAGACTA
TATTTTATCCCTCATAAAATGTTTTAAATGTAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSEWMKKGPLEWQDYIYKEVRVTASEKNEYKGWVLTTPVSANIVLVNFLEDGSM SVTGIMGHAVQTVETMNEGD
HRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKNHIPITEQGDAPRTL CVAGVLTIDPPYDPENCSSSNEI
ILSRVQDLIEGHLTASQ

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FIGURE 1293

AGCCGAGGGCTGCACAAAGACCTTCCTGGCCTGCCCCAGACAGAGCTGAGGACCCCTGGCCGTGGGCTTGGGCCT
CGGCTTACAGGATGGGGCTGCCAGTGTCTGGGCCCCCTCTGCCCTCTGGGTCTAGGGTGTGCGCCCTGCTC
CTCTCGCTGTGGGCGCTGTGCACAGCCTGCCGCAGGCCCGAGGACGCTGTAGCCCCAGGAAGAGGGCGCGGAGG
CAGCGGGCGAGGCTGCAGGGCAGTGCACGCGCGGCGGAAGCGTCCCTACTGAGGCGGACCCACCTCTGCTCCCTC
AGCAAGTCGGACACCAGACTGCACGAGCTGCACCGGGGCCCCGCGCAGCAGCAGGGCCCTGCGGCCTGCCAGCATG
GATCTCCTGCGCCACACTGGCTGGAGGTGTCCAGGGACATCACCGGACCGCAGGCAGCCCCCTCTGCCTTCCCA
CACCAGGAGCTGCCCCGGGCTCTGCCGGCAGCTGCAGCCACCGCAGGGTGCCTGCGCTGGCCTCGAGGCCACCTATTCC
AACGTGGGGCTGGCGGCCCTTCCCGGGGTGAGCCTGGCGGCCAGCCCTGTGGTGGCCGAGTATGCCCGCGTCCAG
AAGCGCAAAGGGACCCATCGCAGTCCCCAAGAGCCACAGCAGGGGAAGACTGAGGTGACCCCGGCCGCTCAGGTG
GACGTCTGTACTCCAGGGTCTGCAAGCCTAAAAGGAGGGACCCAGGACCCACCACAGACCCGCTGGACCCCAAG
GGCCAGGGAGCGATTCTGGCCCTGGCGGGTGACCTGGCCTACCAGACCCCTCCCGCTCAGGGCCCTGGATGTGGGC
AGCGCCCCCTGGAAAACGTGTATGAGAGCATCCGGGAGCTGGGGGACCCTGCTGGCAGGAGCAGCACGTGCGGG
GCTGGGACGCCCCCTGCTTCCAGCTGCCCCAGCCTAGGGAGGGGCTGGAGACCCCTCCCTGCCTCCCTGCCCTGA

ACACTCAAGGACCTGTGCTCCTTCCTCCAGAGTGAGGCCCCGTCCCCGCCCCGCCCCGCTCACAGCTGACAGCG
CCAGTCCCAGGTCCCCGGGCTGCCAGCCCGTGAGGTCCGTGAGGTCTTGGCCGCTCTGACAGCCGCGGCCTCCCC
GGGTCCAGAGAAGGCCCGCTCTAAATAAAGCGCCAGCGCAGGATGAAAGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1294

MGLPVSWAPPALWVLGCCALLLSLWALCTACRRPEDAVAPRKRRARRQRARLQGSATAAEASLLRRTHLCSLSKSD
TRLHELHRGPRSSRALRPASMDLLRPHWLEVSRDITGPQAAPSAFPHQELPRALPAAAATAGCAGLEATYSNVGL
AALPGVSLAASPVVAEYARVQKRKGTHRSPQEPQOGKTEVIPAAQVDVLYSRVCKPKRRDPGPTTIDPLDPKGQGA
ILALAGDLAYQTLPLRALDVGSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCPSLGRGWRPLPASLP

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FIGURE 1295

ACACACGCTATGCCTTAAATTGGGCCAGGCTGAGGCGCTGCTGCTGGAGCGGCCGATCCGAGACGTGGCTCCCTG
GGCGGCAGAACCATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTAC
CTCTATCCGGCTTCCAGACAAGCTGCAGGAATTCAGGGATTACTCCAAGTGAAGAAAAAGATGGTAATCTTCCA
GATATTGTGAATAGTGGAAAGTTTGCATGAGTTCTGGTTAATTTGCATGAGAGATATGGGCCTGTGGTCTCCTTC
TGGTTTGGCAGGCGCGTCTGTGGTTAGTTTGGGCACTGTTGATGTACTGAAGCAGCATATCAATCCCAATAAGACA
TTGGACCCCTTTTGAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGTGAGTGAACCAAC
ATGAGGAAAAAATTGTATGAAAATGGTGTGACTGATTCTCTGAAGAGTAACTTTGCCCTCCTCTAAAGCTTTCA
GAAGAATTATTAGATAAAATGGCTCTCCTACCCAGAGACCCAGCACGTGCCCTCAGCCAGCATATGCTTGGTTTT
GCTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGATGATCAGGAAGTCATTGCTTCCAGAAG
AATCATGGCACACCCCTCATGCAACTGGAGTCTGTTTAAAGGAACATCATAAAGAACGAAAAGGAAGGAACCTCAG
TCAACATATTTTCACTGACTCCTTAGTACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTT
TCTCTGGCCAGTTGCATAATAACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTAAACCACCTCTGAAGAAGTT
CAAAAAAATTATATGAAGAGATAAACCAAGTTTTTGGAAATGGTCTGTTACTCCAGAGAAAATTGAGCAGCTC
AGATATTGTGAGCATGTGCTTTGTGAAGTGTCCGAAGTCCAAAGTACTCCAGTTTCTGCCAGTTTCAAGAT
ATTGAAGGAAAAATTGACCGATTTATTATTCCTAGAGAGACCCCTGTCCTTTATGCCCTTGGTGTGGTACTTCAG
GATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGGTTTGATGATGAATTAGTAATGAAAACCTTT
TCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACAGTACTTCTT
AGTGTATTTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTATTGAAACAAAGTATGAAGTGGTAACA
TCATCAAGGGAAGAAGCTTGGATCAGTGTCTCAAAGAGATATTAATTTTATACATTTAAATCATTGTTAAAT
TGATTGAGGAAAACAACCATTTAAAAAAATCTATGTTGAATCCTTTTATAAACCAGTATCATTGTGAATATAA
ACACCTATTTGTACTTAATTTGTAAATTTGGATTTTATATATCATATTTCTTAATTCATTGGACACATTTGA
CTTACTGCACAGTATATTGATCATTTTAAATGGGAACTTTAGCTTTCTACTTTTAAATTTGGTTTTTCACTTTC
TATGCCATTATTTTGGATTCTTTTCTTAGTGTGAGCTCTAAATCAATGTTCTTGAAAAGAAATTATTTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLDFAIFAVTFLLALVGAVLYLYPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGR
RVVVS LGTV DVLKQHINPNKTLDPFETMLKSLLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFALLKLSEELL
DKWLSYPETQHVPLSQHMLGFAMKSVTQMVMGSTFEDDQEVIRFQKNHGTPSCNWSLFKEHHKRTKRKELQSTYF
IDSLVQGNLNDQQILED SMIFSLASCIITAKLCTWAICFLT TSEE VQKKLYEEINQVFGNGPVTPEKIEQLRYCQ
HVLCELFRTAKLTPVSAQFQDIEGKIDRFIIPRETIVLYALGVVLQDPNTWPSPHKFDPRFDELVMKTFSSLG
FSGTQECPELRFAYMVTTVLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

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FIGURE 1297A

GTGGGATAAAGGAATGAGGTTTCAAGAAAGGGGAGGGAGTTGCCCGCAGCCGCACCGCACGTCTTCAGCCCGACCG
TTGTCTGACCTCTCTGTCCCGTCCCTGCCAGTCTCACCATGGCCTTCTGGACACAGCTGATGCTGCTGCTCT
GGAAGAATTTTCATGTATCGCCGAGACACCGGTTCCAGCTCCTGGTTCGAATTGCTGTGGCCTCTCTTCTCTTCT
TCATCCTGGTGGCTGTTCGCCACTCCACCCGCCCTGGAGCACCATGAATGCCACTTCCCAAACAAGCCACTGC
CATCGGCGGGCACCGTGGCCTGGCTCCAGGGTCTCATCTGTAATGTGAACAACACCTGCTTTCCGCAGCTGACAC
CGGGCAGGAGCCCGGGCGCCTGAGCAACTTCAACGACTCCCTGGTCTCCCGGCTGCTAGCCGATGCCCGCACTG
TGCTGGGAGGGGGCAGTGCCACAGGACGCTGGCTGGCTAGGGAAGCTGATCGCCACGCTGAGGGCTGCACGCA
GCACGGCCCCAGCCTCAACCAACCAAGCAGTCTCCACTGGAACCACCCATGCTGGATGTCGCGGAGCTGCTGACGT
CACTGCTGCGCACGGAATCCCTGGGGTTGGCACTGGGCCAAGCCCAGGAGCCCTTGACAGCTTGTGGAGGGCCG
CTGAGGACCTGGCCAGGAGCTCCTGGCGCTGCGCAGCCTGGTGGAGCTTCGGGCAGTGTGCAGAGACCCCGAG
GGACAGCGGGCCCCCTGGAGTTGCTGTGAGAGGCCCTCTGCAGTGTGAGGGGACCTAGCAGCACAGTGGGCCCT
CCCTCAACTGGTACGAGGCTAGTGACCTGATGGAGCTGGTGGGGCAGGAGCCAGAATCCGCCCTGCCAGACAGCA
GCGTGAAGCCCCGCTGCTCGGAGCTGATTGGAGCCCTGGACAGCCACCCGCTGTCCCGCTGCTGTGGAGACGCC
TGAAGCCTCTGATCCTCGGAAGCTACTCTTTGCACCAGATACACCTTTTACCCGGAAGCTCATGGCCCAGGTCA
ACCGGACCTTCGAGGAGCTCACCTGCTGAGGGATGTCCGGGAGGTGTGGGAGATGCTGGGACCCCGGATCTTCA
CCTTTCATGAACGACAGTTCCAATGTGGCCATGCTGCAGCGCTCCTGCAGATGCAGGATGAAGGAAGAAGGCAGC
CCAGACCTGGAGGCCGGGACACATGGAGGCCCTGCGATCCTTTCTGGACCTGGGAGCGGTGGCTACAGCTGGC
AGGACGCACACGCTGATGTGGGGCACCTGGTGGGCACGCTGGGCCGAGTGACGGAGTGCCTGTCTTGGACAAGC
TGGAGGGCGCACCTCAGAGGCAGCCCTGGTGTGCGGGGCCCTGCAACTGCTCGCGGAACATCGATTCTGGGCCG
GCGTCTCTTCTTGGGACCTGAGGACTCTTCAGACCCACAGAGCACCCAACCCAGACCTGGGCCCGGCCACG
TGCGCATCAAAATCCGCATGGACATTGACGTGGTTCAGAGGACCAATAAGATCAGGGACAGGTTTGGGACCTG
GCCCAGCCGCGGACCCCTGACCGACCTGCGCTACGTGTGGGGCGGCTTCTGTACCTGCAAGACCTGGTGGAGC
GTGCAGCCGTCCGCGTGTCTAGCGGGCGCAACCCCGGGCGGGCCTCTACCTGCAGCAGATGCCCTATCCGTGCT
AIGTGGACGACGTGTTCTCTGCGTGTGCTGAGCCGGTCTGCTGCCGCTCTTCTGACGCTGGCCTGGATCTACTCCG
TGACACTGACAGTGAAGGCCGTGGTGGGGAGAAGGAGACGCGGCTGCGGGACACCATGCGGCCATGGGGCTCA
GCCGCGCGGTGCTCTGGCTAGGCTGGTTCTCAGCTGCCTCGGGCCCTTCTGCTCAGCGCCGCACTGCTGGTTT
TGGTGCTCAAGCTGGGAGACATCCTCCCTACAGCCACCCGGGCGTGGTCTTCTGTTCTTGGCAGCCTTCGCGG
TGGCCACGGTGACCCAGAGCTTCTGCTCAGCGCCTTCTTCTCCCGGCCAACCTGGCTGCGGCTGCGGCGGCC
TGGCCTACTTCTCCCTCTACCTGCCCTACGTGCTGTGTGTGGCTTGGCGGGACCGGCTGCCCGCGGGTGGCCGG
TGGCCGCGAGCCTGCTGTGCGCCGTGGCCTTCGGCTTCGGCTGCGAGAGCCTGGCTCTGCTGGAGGAGCAGGGCG
AGGGCGCGCAGTGGCACAACGTGGGCACCCGGCCTACGGCAGACGTCTTCAGCCTGGCCCAGGTCTCTGGCCTTC
TGCTGCTGGACGCGGCGCTCTACGGCCTCGCCACCTGGTACCTGGAAGCTGTGTGCCAGGCCAGTACGGGATCC
CTGAACCATGGAATTTTCTTTTCGGAGGAGCTACTGGTGGGACCTCGGCCCCCAAGAGTCCAGCCCCCTTGCC
CCACCCCGCTGGACCCAAAGGTGCTGGTAGAAGAGGCACCGCCCGGCTGAGTCTGGCGTCTCCGTTCGCAGCC
TGGAGAAGCGCTTTCTGGAAGCCCGCAGCCAGCCCTGCGGGGCTCAGCCTGGACTTCTACCAGGGCCACATCA
CCGCTTCTTGGGCCACAACGGGGCCGGCAAGACCACCCCTGTCCATCTTGAGTGGCCTCTTCCACCCAGTG
GTGGCTCTGCCCTTCATCCTGGGCCACGACGTCCGCTCCAGCATGGCCGCCATCCGGCCCCACCTGGGCGTCTGTC
CTCAGTACAACGTGCTGTTTGACATGCTGACCGTGGACGAGCAGTCTGGTTCTATGGGCGGCTGAAGGGTCTGA
GTGCCGCTGTAGTGGGCCCCGAGCAGGACCGTCTGCTGCAGGATGTGGGGCTGGTCTCCAAGCAGAGTGTGCAGA
CTCGCCACCTCTCTGGTGGGATGCAACGGAAGCTGTCCGTGGCCATTGCCTTTGTGGGCGGCTCCCAAGTTGTTA
TCCTGGACGAGCCTACGGCTGGCGTGGATCCTGCTTCCCGCCGCGGTATTTGGGAGCTGCTGCTCAAATACCGAG
AAGGTGCGACGCTGATCCTCTCCACCCACACCTGGATGAGGCAGAGCTGCTGGGAGACCGTGTGGCTGTGGTGG
CAGGTGGCCGCTTGTGCTGCTGTGGCTCCCCACTCTTCTGCGCCGTACCTGGGCTCCGGCTACTACCTGACGC
TGGTGAAGGCCCGCCTGCCCTGACCACCAATGAGAAGGCTGACACTGACATGGAGGGCAGTGTGGACACCAGGC
AGGAAAAGAAGAATGGCAGCCAGGGCAGCAGAGTCGGCACTCCTCAGCTGCTGGCCCTGGTACAGCACTGGGTGC
CCGGGGCACGGCTGGTGGAGGAGTGCCACACGAGCTGGTGTGGTGTGCCCTACACGGGTGCCCATGACGGCA
GCTTCGCCACACTCTCCGAGAGCTAGACACGGCTGGCGGAGCTGAGGCTCACTGGCTACGGGATCTCCGACA
CCAGCCTCGAGGAGATCTTCTGAAGGTGGTGGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCG

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FIGURE 1297B

GGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCCTGCGGGCTCAAGATGCCGCCACAGGAGACAGCGC
TGGAGAACGGGGAACCAGCTGGGTCAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTAC
AGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGCCCGCCGAGCCGCC
GCGGCCTGTTGCCCCAGATCGTGTGCTGCCCTCTTTGTGGGCCTGGCCCTCGTGTTCAGCCTCATCGTGCTC
CTTTGCGGCACTACCCGGCTCTGCGGCTCAGTCCCACCATGTACGGTGTCTCAGGTGTCTTCTTTCAGTGAGGACG
CCCCAGGGGACCTTGGACGTGCCCGGCTGCTCGAGGCGCTGCTGCAGGAGGCAGGACTGGAGGAGCCCCCAGTGC
AGCATAGCTCCACAGGTTCTCGGCACCAGAAGTTCTGCTGAAGTGGCCAAGGTCTTGCCAGTGGCAACTGGA
CCCCAGAGTCTCCATCCCCAGCCTGCCAGTGTAGCCAGCCCGGTGCCCGCGCCTGTGCCCCGACTGCCCGGCTG
CAGCTGGTGGTCCCCCTCCGCCCCAGGCAGTGACCGGCTCTGGGGAAGTGGTTCAGAACCTGCAGGCCGGAACC
TGTCTGACTTCTCGGTCAAGACCTACCCGCGCCTGGTGCGCCAGGGCCTGAAGACTAAGAAGTGGGTGAATGAGG
TCAGGTACGGAGGCTTCTCGCTGGGGGGCCGAGACCCAGGCCTGCCCTCGGGCCAAGAGTTGGGCCGCTCAGTGG
AGGAGTTGTGGGCGCTGCTGAGTCCCTGCCTGGCGGGGCCCTCGACCGTGTCTGAAAAACCTCACAGCCTGGG
CTCACAGCCTGGACGCTCAGGACAGTCTCAAGATCTGGTTCAACAACAAAGGCTGGCACTCCATGGTGGCCTTTG
TCAACCGAGCCAGCAACGCAATCCTCCGTGCTCACCTGCCCCAGGCCGGGCCGCCACGCCACAGCATCACCA
CACTCAACCACCCCTTGAACCTCACCAAGGAGCAGCTGTTTGAAGCTGCATTGATGGCTCCTCGGTGGACGTCC
TCGTCTCCATCTGTGTGGTCTTTGCCATGTCTTTGTCCCGCCAGCTTCACTCTTGTCTCATTGAGGAGCGAG
TCACCCGAGCCAAGCACCTGCAGTCTATGGGGGCGCTGTCCCCACCCTCTACTGGCTTGGCAACTTTCTCTGGG
ACATGTGTAATACTTGGTGCCAGCATGCATCGTGGTGTCTATCTTTCTGGCCTTCCAGCAGAGGGCATATGTGG
CCCCTGCCAACCTGCCTGCTCTCCTGCTGTGTGCTACTACTGTATGGCTGGTGCATCACACCGCTCATGTACCCAG
CCTCCTTCTTCTTCTCCGTGCCAGCACAGCCTATGIGGTGCTCACCTGCATAAACCTCTTTATTGGCATCAATG
GAAGCATGGCCACCTTTGTGCTTGAGCTCTTCTCTGATCAGAAGCTGCAGGAGGTGAGCCGGATCTTGAACAGG
TCTTCTTATCTTCCCCACTTCTGCTTGGGCCGGGGGCTTATTGACATGGTGCAGAACAGGCCATGGCTGATG
CCTTTGAGCGCTTGGGAGACAGGCAGTTCAGTACCCCTGCGCTGGGAGGTGGTGGCAAGAACCTCTTGGCCA
TGGTGATACAGGGGCCCCCTCTTCTTCTTCTTCACTACTGCTGCAGCACCGAAGCCAACCTCTGCCACAGCCCA
GGGTGAGGTCTCTGCCACTCCTGGGAGAGGAGGACGAGGATGTAGCCCGTGAACGGGAGCGGTGGTCCAAGGAG
CCACCCAGGGGGATGTGTGGTGTGCTGAGGAACCTGACCAAGGTATACCGTGGGCAGAGGATGCCAGCTGTTGACC
GCTTGTGCTTGGGATTCCCCCTGGTGAGTGTCTTTGGGCTGCTGGGTGTGAATGGAGCAGGGAAGACGTCCACGT
TTCGATGGTGACGGGGACACATTGGCCAGCAGGGGCGAGGCTGTGCTGGCAGGCCACAGCGTGGCCCCGGGAAC
CCAGTGTGCGCACCTCAGCATGGGATACTGCCCTCAATCCGATGCCATCTTTGAGCTGTGACGGGCGCGGAGC
ACCTGGAGCTGCTTGGCGCCTGCGCGGTGTCCCGGAGGCCAGGTTGCCAGACCGCTGGCTCGGGCCTGGCGC
GTCTGGGACTCTCATGTACGCAGACCGGCTGCAGGCACCTACAGCGGAGGGAACAAACGCAAGCTGGCGACGG
CCCTGGCGCTGGTTGGGGACCCAGCCGTGGTGTCTTGGACGAGCCGACCACAGGCATGGACCCAGCGCGCGGC
GCTTCCCTTGAACAGCCTTTTGGCCGTGGTGCGGGAGGGCGGTTCAGTGATGCTCACCTCCCATAGCATGGAGG
AGTGTGAAGCGCTCTGCTCGCGCCTAGCCATCATGGTGAATGGGCGGTTCCGCTGCCTGGGCAGCCCCGAACATC
TCAAGGGCAGATTGCGGCGGGTCACACACTGACCCTGCGGGTGCCCCGCCGAAGGTCCCAGCCGGCAGCGGCCT
TCGTGGCGGCCGAGTTCCCTGGGTGCGAGCTGCGCGAGGCACATGGAGGCGCCTGCGCTTCCAGCTGCCGCCGG
GAGGGCGCTGCGCCCTGGCGCGCTCTTTGGAGAGCTGGCGGTGCACGGCGCAGAGCACGGCGTGGAGGACTTTT
CCGTGAGCCAGACGATGTGGAGGAGGTATTCTTGTACTTCTCCAAGGACCAGGGGAAGGACGAGGACACCGAAG
AGCAGAAGGAGGCAGGAGTGGGAGTGGACCCGCGCCAGGCCTGCAGCACCCCAACGCGTACGCCAGTTCTCTG
ATGACCCTAGCACTGCCGAGACTGTGCTCTGAGCCTCCCTCCCTGCGGGGCGCGGGGAGGCCCTGGGAATGGC
AAGGGCAAGGTAGAGTGCTTAGGAGCCCTGGACTCAGGCTGGCAGAGGGGCTGGTGCCTGGAGAAAAATAAGAG
AAGGCTGGAGAGAAGCCGTGGTGGTGAAG

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FIGURE 1298

MAFWTQLMLLLWKNFMYRRRQPVQQLLVELLWPLFLFFILVAVRHSHPPLEHHECHFPNKLPSAGTVPWLQGLIC
NVNNTCFPQLTPGEEPGRLSNFNDLSVSRLLADARTVLGGASAHRTLGLGKLIATLRAARSTAQPQPTKQSPLE
PPMLDVAELLTSLLRTESLGLALGQAQEPHLSLLEAAEDLAQELLALRSIVELRALLQRPRGTSGPLELLSEALC
SVRGPSSTVGP SLNWYEASDLMELVGQEPESALPDSSLPACSELIGALDSHPLSRLLWRRILKPLILGKLLFAPD
TPFTRKLM AQVNRTFEELTLLRDVREVWEMLGPRIFTMNDSSNVAMLQRLQMQDEGRRQPRPGGRDHMEALRS
FLDPGSGGYSWQDAHADVGHLVGTILGRVTECLSLDKLEAAPSEAALVSRAQLLAEHRFWAGVVFLGPESSDPT
EHPTPDLGPGHVRIRKIMDIDVVRTNKIRDRFWDGPAAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRA
GLYLQOMPYPCYVDDVFLRVLSRSLPLFLTLAWIYSVTITVKAVVREKETRLRDTMRAMGLSRAVLWLWGLFSLCL
GPFLLSAALLVLVLKGLDILPYSHPGVVFLFLAAFAVATVTQSFLLSAFFSRANLAAACGGLAYFSLYLPYVLCV
AWDRRLPAGGRVAASLLSPVAFGFGCESLALLEEQGEQAQWHNVGTRPTADVFSLAQVSGLLLLDAALYGLATWY
LEAVCPGQYGIPEPWNFPFRSYWCGPRPPKSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLEKRFPGSPQPALR
GLSLDFYQGHITAFILGHNGAGKTTTSLISGLFPPSGGSFILGHDVRSMAAIRPHLGVCQYNVLFDMLTVD
HWFYGRLLKGLSAAVVGPEQDRLLQDVGLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQVVILDEPTAGVDPASR
RGIWELLLKYREGRTLILSTHHLDEAELLGDRVAVVAGGRLCCCGSPLFRRHLGSGYYLTIVKARLPLTTNEKA
DTDMEGSVDTRQEKNGSQGSRVGTPQLLALVQHWVPGARLVEELPHELVLVLPYTGAHDGSAFATLFRDLTRLA
ELRLTGYGISDTSLEEIFLKVVEECAADTDMEDGSCGQHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETD
QGSQPDVAVGRVQGWALTRQQLQALLKRFLLARRSRRLGFAQIVLPALFVGLALVFSLIVPPFGHYPALRLSPTM
YGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHSSHRFSAPEVPAEVAKVLASGNWTPESPSPACQCSQP
GARLLPDCPAAAGGPPPPQAVTGSGEVVQNL TGRNLSDFLVKTYPRLVQRGLKTKKWVNEVRYGGFSLGGRDPG
LPSCQELGRSVEELWALLSPLPGGALDRVLKNLTAWAHSLDAQDSLKIWFNNKGWHSMAFVNRA SNAILRAHLP
PGRARHAHSITTLNHPLNLTKEQLFEAALMASSVDVLVSICVVFAMSFVPASFTLVLEIEERVTRAKHLQLMGGLS
PTLYWLG NFWDMCNYLVPACIVVLIFLAFQQRAYVAPANLPALLLLLLLYGWSITPLMYPASFFF SVPSTAYVV
LTCINLFIGINGSMATFVLELFSQKLQEVSRILKQVFLIFPHFCLGRGLIDMVRNQAMADAFERLGRQFQSP
RWEVVGKNLLAMVIQGPLFLLFTLLLQHRSQLLPQPRVRSPLLGEEDEDVARERERVVQATQGDVLVLRNLTK
VYRGQRM PAVDRLCLGIPPGECFGLLVNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAREPSAAHLSMGYCPQS
DAIFELLTGREHLELLARLRGVPEAQVAQTAGSGLARLGLSWYADRPAGTYSGGNKRKLATALALVGDPVAVFLD
EPTTGMDPSARRFLWNSLLAVVREGRSVMLTSHSMEECEALCSRLAIMVN

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FIGURE 1299

GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATGGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCCTCCACGCTCCTGCCGCTGTCTCCACGTCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGAACGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACACTTAAATTTTTCCAGACATTTGCCTTGCTTGAGATAGTTCACGTGTTAATTGGAATTGTACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTTGGA
GTTGCTGGTGAACCTTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAATAACAATGTCTCTTTTGACTACTATTATTTTCTTCTATAACCATGGCATCATATATACCTTTGTTT
CCACAACCTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
TAAACAACCTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLLDHLPYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMFSIRLPNKYNVSFDYYYFLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

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FIGURE 1301A

GGCGGCTCCGGCGCAGACCTTGGAGAGCACAGCTGCCGGCCCCGAGCCAGCCTCGGTTCCCGCGGCCCCGCCGAG
GCTCGGAGCCATCCAGCGACCCGGCGACCGGCTCAGGCCCGCCATGGGGAAGACCAACAGCAAGCTGGCCCCC
GAGGTGCTGGAGGACCTTGTTTCAAGAACTGAGTTTACGCGAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCCTG
AAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTACGAGCTCTACATCAAGTTCTTCCCTACGGCGAC
GCCITCCAAGTTTCGCGCAGCACGCTTTCCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTT
ATCTGCCCTGTGCGTACCTCCCGCGGAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTG
GACGGCGACGGGCGAATCACGCGCCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTG
ATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAG
GATAAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGAGCCAAAGAGTGACCCATCCATTGTGTGCTGCTG
CAGTGTGACATGCAGAAGTAGAAGCTGGTGGGGGAGGGTCCCTGGCCAGAAGGGGATGGCCACCTCCCAACC
TGATGACCTCTCTGGCTGGCCTCCAGGAGGAGGGACACTCCAGCCCCCTCTCTGGCCACCCAGTCTCTGCC
CAAGCCCTTCTCTCCCTCCATCAAGATCTTTGAGGGACCACCTCACCTTGCAAAAGAGACAGGTCTCCAGTACC
CTGTCTTTAGCCCCACCTCCCACTTGGCCAGAACCAATGTCCATTGGGCATAGGGGAGTTGGCTTTTGCCCCAG
GAGGTGAGGTTAAGGAGTTGGGGGCTGGGGTTCTGGTTAGGAATTCTCTTGATCTGGGATTATGCTTTATAGG
ATGTGGTCCACAGGCCTGTACAGGGCCAAATTGGGTCTGTCCATTCTGAGGCTCCAGATCCCATAAAGGGGG
TCTCTTCCCATCCCTTCTACTCTACCTGGCCCTTCCAGCCCCAGCCTTTGGAGCGTTCAATCAGTCTTTCTTC
AGCTAATGATTACTGAGCACCTGTTTGGTGCTAAGGATATGGTCATTACAAGACACATCTTGTGCCCTCTGGAA
GCTCATAGGGTTGTGAGGCAAACTTCCAGCGCTCAGGGTCTCAGCTAAGCAGAAGGTGCTGGAAGGCTGGTTAGT
CTGGGAGGAGCTATTTTCTCTCCAGCTCAGCTCCACAAAAGCTGCAGAAGGACGAAATGAAAAGCATTGGAA
GTTTAGGAGCCAGCTGAGTGAAAGTTTAAAGAAAATGAAATTTATGTCATACTTATTTTTTAGTACCCTTTAA
AGGAGCTACAGTCATTTTATTTTTCAGGAGGTTAAAATATACTCTATATTACTTGGTTTATTATAAAATGATTA
AATGAATAGAGAAAATATTAATTTTCAAGGGGAAAAACCTGAGAAGAAAGGGAGAAAAGACCATGAAATTTACC
AGATAACACTTTTAAAGACTAAGTCTGAGCTGCCACTCTCAGCAGTTTTTGCTGCTTCAGCTCTTCTTTTAT
TACCTTTTCAATTCAACAAGCAACTTTCTGCTACATACTTACTCCGGTTGGGTGCTGACTTCAGGGACAGGAAA
AAGCAAGGTTTGCAAGAGTGAACTAGTGTATATTCCGTATCTTGGTAGTTCTGTTTCTGGATTGGGTTTAGTTT
CAGAACTGGACTTGTCTTCTACTGCCACAGAATCAGAAAGAGCTAGAAGAAAAGGCTACCTGGCCACTGTTTA
GGCACCACAGACATAATTTATGGACGAAATGCCTAAAAATGTGCGCAGGCATGCTCTGTTTGAGAGGCTTTTTCTAA
CCCCAAATCTTAGATCTGCCAGGTAGTTCAACATCTTCAAGTGTGCTGTTCTGCTTCCAATGCCTGCTTCCC
AATTTTGATCCATGAGCTATACAGCTGCATGCTTTGACTGCCGAAAAATTAATCTTGCTTCTTCATCAGGTCT
TTCTCTGTACTTGTGATCAGAAATTACCTTTGACGTGCAGTGACAGTTGATTTCTCTTGAAGTCCCGGTGAAA
ACAGTCTAGTACACAGGTGCTGTGACGCCAGGGTGGGAGCAGGAAATGATTGCTGAGCCCGGGGAGGGGAATTG
CATCTGCAGGAAAGAGATGCAGCATGCTCCTCACTCTGAGTGCCACCTGTCTGCTTCTCTGCAGGTGAAAAC
TCTGGGGGATGCTGATCAATAGAGCTTGGTCCCAAGCTCTACTGGGCCCTTGGAGGTAGCAAGGCCACTGGGTG
CTATCCTCTTGATGGGGATAGCAACCACTGGTTTGCAACCACTGGGTGCTATCCTTTTGCTATCCTCTTGCTCA
TGACCAGCCATATGGTGAGGCTGGGGAGTTCACATCCTCAGGCAGGAAGTAGCAGTTGTTTATCCAGCAATGCCT
CAAGGATGTTGATTGCTCCAGGAGCTGGCTATTAGGTATGTCTTGTGCGGTGAGTCAGCATCAGACACATA
GATGCTCACCAGCCTGGCTTAGCTGGGACCTAAATCTTCTGGTGAAAAGCTTTTCACTAAGTGAGGTTCTTCCC
TGCAATGCTGAATCTAGCCTAATTCGCAACCACACAGAAATTCATGGCTTTCAAAGGCTTGCCATGTGCCCAT
CTCATTCTATACTCACATCCCATGGAGGTGAGGATTTTCACTTCTTTTCTCTAGACTTGAAGCTGAGATTGAGA
GAGGAAGCATCCCTTGTGCAAGATCACATAGTCAGGAGGTGACACAGGGCTAAGACTTGAACCAAGGCTCTAAGA
GGATTTCTTCTTTTTCAGAGTCTCTTCCCTGTCCATTTCTGTGACTAAGCTGTGCAGAGGTTGACAGCAGGGCAAG
TTACATTGATATTTCATCCTTTATAGGCTTCTGCTAAAAAGCTTCTGAGATGTGGTCTTCCAAAAAAATAGGA
GCTTGGTTGAAGTCCCCACATTTTCAAGCACTCAGTGTCTGCTCTGGCAGCTGTGCTAACAGCTCAGTGCTGT
CCTGGGAGTCTCTGACTCAGAACCCTCGAAGCATCTGCAATGTCTTTACCCACCATCATCGTCACTAAGAGAA
ACATGCCATCCCATGAAGGCGTGTGTTGATTACTCCAGGCTTCTGGACACACATACCCATGGGTGATTTTTGCTCC
TCAGGCCCAATATTCTCAGACAGCCCAGCAGTGTGAACACACAATGCCAGGCCAGGAAGTGGGACCACCATCTTG
CTGATGGAAGGAACAACAGGTGGCCCAGGACATGCTCCTGCATACTCTGGGTGTCCAGGGAGTGTGTGCTCAG
GAGCACTGTGGTAGAGCACTGGCCCTGCCTTGAGAAGAGACACAGGTCTCCCGTCCCTGCACCAGCTGAGAGAGA

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FIGURE 1301B

CTTGCCACAAAGCACAAGGCTGGCAGAGATTTATGTATGACTTGCACAGACACAAAAATATACAGACAATCAAAA
CATTGATATATTCAAACCTCTCCTTTAAATTCCAATCTTATTGCAACAACCTCTGTGAATTGCAAGGTCCCAGAATC
TGCCTTCTCACATACTCTACCCTCATTCAATCCTTTGGGCTAATTGATGAGCATCTTATTTCTTATCTCTAAAAA
TTATCAGCAAAGGCTACTTCAGATGGCCACTTTAGTCCTTTTACGCTGTAGTCAGGATTATTTAACTTACCTGTAT
ATCAAAAGTGAAGAAAAAGTTAGTTCATAAGTAAAGGCACTAAATCCTTTCTGACAATGGCAGAGTCTCTAGAG
GTAGAAATTTGCCTTGCTGCAGAGAGAGAAGGAATGGCGTGGGATGGGGGAAAGAAAAGAGAAGAAGAGAA
GAAGCTGGGGTCTCCAGGCAGGGTAGTAAGCTGACACTAAATATTTTTTACACAAAAATGTATTGAAGCAACAAA
TATTTCTGAAGATCCACCCTGGGTGAGGCTTTGAGCTGACTTTAGAGATCACTGTGGGGTCAAGAATGTCTTAC
ATGTTTTATTTCATCATTCTTGAAAAAGAAATAATTCAAACCTTGGAATTAAAAAGTCAGAAAAACAAAAAAA
AAAAAAA

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FIGURE 1302

MGKTNSKLAPEVLEDLVQNTSEFSEQELKQWYKGFLLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFRTFDKN
GDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLDGDGRITRLEMLEIEAIYKMVGTVIMMRMNQDGLTPQQR
VDKIFKKMDQDKDDQITLLEEFKEAAKSDPSIVLLLQCDMQK

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FIGURE 1303

CAAAGGTCAGAGGTAAAGAAGTCATGGCGGCGCTGTGTGGACCCGCTGCTGTGGCTGCCGAGAGCCATTTTCTGC
GAGTGTTCCTCTTCTTCAGGCCCTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGGTAGTTCCAATGCCA
AGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGGAGCGGCACTCGGAGCTTCTACAGAAGGTGGAGC
CCCTACAGAAGGGTTCTCCAAAAATGTGGAATCCTTTGCATCTATGCTGAGACATTCTCCTCTTACACAGATGG
GACCTGCAAAGGATAAACTGGTCATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTG
GAAAGTTTCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACCAGGGTCCGGTTGC
GGCTATTAGATCTTGAACCTACGTCTAGGTTTCCTGGGAGCAACAACAGATACAACTGTACTAGAGGCTAATGCAG
TTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCGAAAGAAGAACATCATGAAAAATAAATGAACCTTTGCTT
AGTGGATTGACTCCTTTGCTGAAGTCAGTTATTCATCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAA
TGAAGATATAATAAAATAAAAGCTATAATTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1304

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQKGSFK
NVESFASMLRHSPLTQMGPADKLVIGRIFHIVENDLYIDFGGKFHCVCCRPEVDGEKYQKGTRVRLRLDLELT
SRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHHEK

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FIGURE 1305

CCCAAATATATATTTAATCTTGTGGTTCAAATAAGCTTTTGGCTCACATCTAAGCACATCATAAAGAAGCTGTA
GAAGAGGTGACATGATGAGGCGGGAAGACGAGGAAGAGGAGGGAACAATGATGAAGGCAAAGGGGACTTAGAGA
TGAAGGAGGAGGAAGAGATTAGTGAGACAGGAGAACTGGTTGGCCCTTTTGTGAGTGCTATGCCCCACTCCAATGC
CCCACAACAAGGGCACCCGGTTCTCTGAGGCATGGGAATATTTCCACCTAGCTCCTGCTCGTGCTGGGCACCATC
CCAACCAGTATGCCACCTGCCGCTGTGTGGCAGGCAGGTGAGCCGTGGCCCTGGGGTCAACGTGGGCACCACTG
CACTGTGGAAGCATCTGAAAAGCATGCACAGAGAGGAGCTGGAGAAGAGTGGCCATGGTCAGGCTGGGCAGCGCC
AGGATCCAAGGCCCCACGGGCCCCAGCTCCCCACAGGCATTGAGGGTAACTGGGGTAGGCTCCTGGAGCAGGTGG
GCACCATGGCTTTGTGGGCCAGCCAAAGGGAAAAGGAGGTGCTTAGGAGGGAAGGGCAGTGGAATGGCGGGAGA
GGGCTGTGAAAAAAGGGAGCGAGCCCTGGAGGAGGTGAAAGGGCCATCCTGGAGATGAAGTGAAGGTGAGGG
CTGAGAAGGAGGCATGCCAGCGGGAGAAAGAGCTGCCTGCAGCAGTACATCCCTTCCATTTTGTTTAAATTGGGC
TTGGAGAATCTATTCTGAAAACATTGACTCTAGACTTGTAGAAAAGAGCCATTTTAGTTTCAACTCAAATGTAAA
GCAAAGTAGTTTGGTGACATTTTGCTTTTATGTGAAATAGTGACAGTATGAGTTAATCTGAGCAGGTCTGAATT
GACCAAATGCTTATCTACGAGGTTCTTAGAGCTCTGCTGACCCTTGCCGAAACTCTAAAATGTACCTATTAAAG
ATAAATGCTTCTACCAAAGTAAAACCTCTGTGAGTTGTTTCAGGGCAGAATGTACCAGCCAGTCAGCGTTGTTAA
CAAAATAATCAGATTTTTGCCTAGCACTCGGTTTTGGTGGAGCTGACGATTTTGAGGGCTGAGGCTGGTTAGGTA
GCTGGAATGTGCCTATGTGACCAGCTCACTTGACAGACCCCTGCCGGAAGCAGAGCTTAATCTTCTAGGACTGA
GGTCTTAGCACATGIACTGGTGGAGTTTCCAGACCACCAGTATGAATAAAAGCTTGTTCTGTGTGACCCAGCAAG
TGGAAGGACAAAGAAGCTGTGAGCCTCAGATCTTTGGACCTTTCCAATGCGTCTCTTTCTCCTGTTATTGCTGCAA
TGTATTTTCTTGCTTATATTAAAGTTGTTTCATCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1306

MRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPVFSAMPTPMPHNKGTRFSEAWEIFHLAPARAGHHPNQYA
TCRLCGRQVSRGPGVNVGTTALWKHLKSMHREELEKSGHGQAGQRQDPRPHGPQLPTGIEGNWGRLLLEQVGTMAL
WASQREKEVLRRERAVEWRERAVEKRERALEEVERAILEMKWKVRAEKEACQREKELPAAVHPFHFV

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FIGURE 1307

CACATTCCAGAAAAAATACCGCTTTCACAAAACCTCGCTCCGCATGACCCACAGAACACCCAAAGGTCAAAAAGAG
TCCAAAGTTTCAGAAAGAAAAGTTATCTGAGTAGACTGATGCTCGCAAACAGGCCTCCGTTCTCTGCAGCGAAGAG
CCTCATAAATTCCCCTTCACAAGGGGCTTTTTTCATCCTTAGGAGACCTGAGTCTCAAGAAAACCCCTTTTCTGGA
AGTATCTGCTCCTTCAGAACATTTTATAGAAAACCTAATATAAAAGACACAACCTGCAAGAAATGCCTTGGAAGA
AAATGTTTTTATGGAACAACTAACATGCCAGAAGTCACCATCTCTGAAAACACAACTACAATCATCCTCCTGA
GGCAGATTCCGCTGGGACTGCATTCAACTTAGGGCCAAGTGTAAACAACTGAGACAAAATGGGAATACAACAA
CGTGGGCACTGACCTGTCCCCGAGCCCAAAAGCTTCAATTACCCATTGCTCAGTTTGAAATTGAGCTAAACCCAG
CAGTACAGTCCCTTATCCCCAACAACTGTGAGAAGGCTCATTTCTCATGTTATCCGGACCTTGAAGATGGAC
TGCTCTGGGGCCCATGTGCAAGTGACCTGTGCCAAGCTCATCTCCAGGACAGGCCACCTGATGAAGCTTCTCAGT
GGGAGCAGGAAGTAAAGGCATCTGAGATAGAATGGGATACGGACCAATGGAAGACTGAGAACTACATTAATGAG
AGCACGGAAGCCAGAGTGAACAGAAAGAGAAGTCGCTTGAGCTCACAAAAGAAGTTCCAGGATACGGCTATACT
GACAAACTCATCTTGGCATTAAATTGTGACTGAAATACTAATGATTTTGAATTATACTTTTCTGCCTCATTGTGGTT
TAGGATTGGGTGTGTGTCTCTCTGAAATGGCACTCAAATGTTTGCTGACTCCTACTCTGCGTGACTGGGGT
GTACAGCTATGGACTGATGCATCCCATCCCATCATCTTTCACGAGCAAAGCAGTCTCTTTTTTGACAGCTGAAGA
AGAACCTGTAGGGAATCCAGAAGGAGCATTGATGAAGGTGTTACAAGCCCGGAAGAATTACACAAGCACTGAGCT
GACTGTTGAGCCGGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTCAGGCTTTGGGAGTGAGCAGCTAGACAC
CAATGACGAGAGTGATGTTATCAGTGCCTAAGTTACATTTGCCATATTTCTCAGCAGTAAACCTAGATGTGGAA
TCAATGTTACTACCGTTTCATTAAACTGCCAACACAGGAAACAGCCTGGCAAAGATTCAAACCTGTAGGCCAAAAC
CGGCAAAAAGTGAATAGAGTCTCATGGGCCCCAATGAGCATCCAGAAAAGGCACCTCAAAGAGGTGGGAAGGCAG
AGCATCAGGAGGGAACAGGGTGCCAGGCATCTGTGGAGAACGCTGCCGAAGAAAAAGGCTCGGGAGTCCAGCC
CCAAGGGAGCTGGAACAGCCTCACACACAGCAGGGGCTGAGAAGTTAGCGGGAACGCCATCTACACCAAGCCT
TCGTTACGCCAAGAGCATAAGGCAGCAGTCTCTGTGCTGACACCCTTCTCCAAGGGCGCGCCTTCTACCTCCAGC
CCTGCAAAAGCCCTACCACAGGTGAGAGACAGATTGAAAGACAACACACACTATTTCCATTTAGAAAGTGCAA
GGCTAGAGTTACAAATATGAAGGCTTCTAAACCAATTTACATTCCAG

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FIGURE 1308

MTHRTPKVKKSPKFRKKSYSRLMLANRPFFSAAKSLINSPSQGAFSSLGDLSPQENPFLEVSAPSEHFIETTNI
KDTIARNALEENVFMENTNMPEVTISENTNYNHPPEADSAGTAFNLGPTVKQTETKWEYNNVGTDLSPEPKSFNY
PLLSLKFS

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FIGURE 1309

GGAAGCTCAGCAGTGTCCACTGTCGCCATTCTTGGCCATAGAAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAGATAAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAAACCCTCTCTGGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCCTGGGACTACTGCTCCTC
TTGTATTGCGCCACACACGTCCTCAAGTCTTCTGCTCAGATATGGATCTCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTGATCGTTTTTCGGAATAATTCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAGTAAACTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCCCACCCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAGATGGTACAAGTAACCG
GGACAGCTTTGACTGGATGACGATGGCCCCCTATTTCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCTCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAGAGAGTACCTCATTGAATTAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAAAC'TCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCACAGAGCCAAGTGACTG
AACACGCATTCCCAACTATATATCTACAGATGCATTCCATTTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTAAATCTGAATAATTGTACATAAAAT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAAGTAACCTTTTTTCATACCTGCCAGTTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTATACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTGTTGATTCTTC
ATTTTGTTTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGCTTTAAGTGTAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1310

MEIRLDTLSASLGRSSTLNDCNLEDKLAWEGEAYMWHHWKPFPENPLWTCLDFQIAQVGPWDYCSSCIRHTRLK
SSCSDMDLLHSWRSSSFNGFDRFRNNSLSKPDDSTEAGEGDP TNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVS LKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYD TDSLKIKKGDIIDIICKTPMGMWTGMLNNKVGNFKFYVDVISEEEAAPKKI
KANRRSNSKKSKTLQEFLERIH LQEYTSILLNGYETLED LKDIKESH LIELNIENPDDRRRLLSAAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1311

GGGGCAGACGTGGGACGGGAAGGACGGCTGCCGGGACTGGCGCGCGGGGACACTGGGCCGACGCGTGGAGTAGCG
GGGAGAGCGGGAAGCCTGAGGGGGCGGGGCCGGCGCAGGCCGTGGGTGCGGCACGAGGATGCCGGCGGGCGGGAC
AGCGCCCGTAGGCAGCCCCACGGGCAGGGCGCGCGGGCGGGCGGGCGGGCCAGAGGAGCTCCCGGCAT
GTCGCAAGGGCTCCCGGCCGCCGGCAGCGTCTGCAGAGGAGCGTCGCGGCGCCCGGGAACCGAGTGTCTCAGAG
GCCGCAGCAGCAGAGCCCTGAGGATGATGACAGGAAGGTCCGAAGGAGAGAAAAAACCGAGTTGCTGCTCAGAG
AAGTCGGAAGAAGCAGACCCAGAAGGCTGACAAGCTCCATGAGGAATATGAGAGCCTGGAGCAAGAAAACACCAT
GCTCGGAGAGAGATCGGGAAGCTGACAGAGGAGCTGAAGCACCTGACAGAGGCACTGAAGGAGCACGAGAAGAT
GTGCCCCGTGCTGCTCTGCCCTATGAACTTTGTGCCAGTGCTTCCCCGGCCGGACCCTGTGGCCGGCTGCTTGCC
CCGATGAAGCCGGGGACACTCCTCTGCCCAGCAAGGAGCCTTGGTCATTTTCATACCTGGGAGGAAGGCTTTTCC
TTCACAATTGTATACAGGGGGCACCTGTGGCCAGGCCTCCTCTGGGAGCTCCAGGACCAGCCAGCTGTGTTCCC
TGCAGACTGGGCTCAGCCCGACATCCAACAGGCGCCAACTCACAGAGCCCTTGTGCAGATCCAGCATGGAGGCC
ACCCTCAGGAGTGACTTCTCATCCACCCTGGCAGCTAGTAGGTTCTGCTGTTATGCAGAGCCATTTCTCTAGAA
TTTGGATAATAAAGATGCTTATTGTCTCTCCCTTCTCCAGTTCTGGGAATTTACAGGCACAATACACTTCCTTTT
CCTGG

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FIGURE 1312

MSQGLPAAGSVLQRSVAAPGNQPQPQQQSPEDDDRKVRREKNRVAAQRSRKKQTQKADKLHEEYESLEQENT
MLRREIGKLTEELKHLTEALKEHEKMCPLLCPMNFVPVPPRPDPVAGCLPR

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FIGURE 1313

CACAAGGACATGGACGTGGACATCCTGGCCCTGGTCAATGACACCGTGGGGACCATGATGACCTGTGCCTATGAC
GACCCCTACTGCGAAGTTGGTGTTCATCATCGGAACGGCACCAATGCGTGTACATGGAGGACATGAGCAACATT
GACCTGGTGGAGGGCGACGAGGGCAGGATGTGCATCAACACAGAGTGGGGGGCCTTCGGGGACGACGGGGCCCTG
GAGGACATTGCGACTGAGTTTCGACAGGGAGCTGGACCTCGGCTCTCTCAACCCAGGAAAGCAACTGTTTCGAGAAG
ATGATCAGTGGCCTGTACCTGGGGGAGCTTGTTCAGGCTTATCTTGCTGAAGATGGCCAAGGCTGGCCTCCTGTTT
GGTGGTGAGAAATCTTCAGCTCTCCACACTAAGGGCAAGATCGAAACACGGCACGTGGCTGCCATGGAGAAGTAA
AGAAGGCCCTTGCTAATAACAAGAGAGATCCTGGTGGACCTGGGTCTGGAACCGTCTGAGGCTGACTGCATTGCCGT
CCAGCATGTCTGTACCATCGTCTCCTTCGGCTCGGCCAATCTCTGTGCAGCAGCTCTGGCGGCCATCCTGACACG
CCTCCGGGAGAAACAAGAAGGTGGAACGGCTCCGGACCACAGTGGGCATGACGGCACCCCTCTACAAGATACACCC
TCAGTACCCAAAACGCCTGCACAAGGTGGTGGAGAACTGGTCCCAAGCTGTGATGTCCGCTTCTCCTGTGTCAGA
GAGTGGCAGCACCAAGGGGGCGCCATGGTGACCGCGGTGGCCTCCCGCTGCAGGCCAGCGGAAGCAGATCGA
CAGGGTGCTGGCTTTGTTCCAGCTGACCCGAGAGCAGCTCGTGACGTGCAGGCCAAGATGCGGGCTGAGCTGGA
GTATGGGCTGAAGAAGAAGAGCCACGGGCTGGCCACGGTCAGGATGCTGCCACCTACGTCTGCGGGCTGCCGGA
CGGCACAGAGAAAGGAAAGTTTCTCGCCCTGGATCTTGGGGGAACCAACTTCGGGGTCTCCTGGTGAAGATCAG
AAGTGGACGGAGGTGAGTGCATGTACAACAAGATCTTCGCCATCCCCCTGGAGATCATGCAGGGCACTGGTGA
GGAGCTCTTTGATCACATTGTGTCAGTGCATCGCCGACTTCTCGGACTACATGGGCTCAAGGGAGCCTCCCTACC
TTTGGGCTTCACATTCTCATTTCCTGCAGGCAGATGAGCATTGACAAGGGAACACTCATAGGGTGGACCAAGG
TTTCAAGGCCACTGACTGTGAAGGGGAGGACGTGGTGGACATGCTCAGGGAAGCCATCAAGAGGAGAAACGAGTT
TGACCTGGACATTGTTGCAGTCGTGAATGATACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCTAATTG
TGAGATTGGCCTGATTGCAGGAACAGGCAGCAACATGTGCTACATGGAGGACATGAGGAACATCGAGATGGTGGG
GGGGGTGAAGGGAAGATGTGCATCTGTTTTTCAATTTGCCTGTGGTTTTGTGTTGCAGGTGTTGATAGTTGTTTT
AAGGATTGTTAGGTATAGGAAATCCAGTAAATTAATAAAAAAATTTTGAATTTTCCAATAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1314

MDGTLYKIHPQYPKRLHKVVRKLVPSCDVRFLLSESGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLTREQLVD
VQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRVLLVKIRSGRRSVRMYNKIFAI
PLEIMQGTGEELFDHIVQCIADFLDYMGLKGASLPLGFTFSFPCROMSIDKGTLLIGWTKGFKATDCEGEDVVDML
REAIKRNEFDLDIVAVVNDTVGTMMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGGEKMCICFSFCLW
FVLQVLIVVLRIVRYRKSSKLIKKE

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FIGURE 1315

ACGCGGGGATTCTGTGTAATTCCTATCCACAGTCACCTTCTGTTCAATTTTAAATGAAAACCTATTGCTGTTATTTT
CTATTATGAGTTAACGGTGATGTGTGTTTTTAAATTTTGTATACTTGCTCTCACCTAAAAATACCTTAAGAG
ACTTTTCCCCTGTTTTCTTTCTGCTTTCCAAGACTCCAGGAAAAACAGCTTCCATGGCACATTTTGTACAGGGC
ACATCTAGAATGATTGCCGCAGAAAAGTTCTACGGAGCATAAAGAGTGTGCTGAACCATCAACAAGAAAGAACTTG
ATGAATTCCTTGAACAAAAGATAAGGTGTTTGAAAAACAAAGAAAAGAGCTCCTGGAAGTTAACCAGCAATGG
GATCAGCAATTTAGAAGTATGAAAGAGTTATATGAAAGAAAGGTAGCAGAGCTGAAGACGAACTGGACGCCGCG
GAAAGATTCTCAGCACGCCGGGAGAAGGATCCGCATCAGAGGCAGAGAAAGGACGACAGGCAGAGAGAGGACGAC
AGGCAGCGCGACCTGACCCGGGACCGGCTGCAGCGGGAGGAGAAGGAAAAGGAACGCCTAAATGAAGAATTACAT
GAATTGAAAGAAGAGAATAAACTTTTAAAGGGAAAAAATACTCTTGCGAACAAGGAAAAGGAACATTACGAATGT
GAAATAAAACGCCCTCAATAAGGCTCTTCAGGATGCCTTGAATATCAAGTGTTCATTTTCCGAGGACTGTTTGAGG
AAGTCTCGAGTGGAATCTGCCATGAGGAGATGAGAACGAAATGGAAGTTCTGAAGCAGCAGGTGCAATATAC
GAAGAAGACTTCAAAAAGGAACGATCGGATCGAGAGAGACTTAATCAAGAGAAAGAGGAGCTACAGCAAATTAAT
GAACTTCCCAATCCAGTTGAACAGGCTGAATTTCCAGATAAAAGCTTGTGAGATGGAGAAAAAACTAGAA
AAGCAATTAACAGATGTATTGCCACCCTGTAACCTGCGGCTTGTTTTCCACCTGCAAGATCCATGGGTACCA
ACAGGCCCTGGAGCTGTGCAGAAGCAACGGGAGCACCACAGACTGTGATGGTATGCTCTTGACCAGCTTCCG
CCAGATGTACAACACAAGGCAATGGTTTATCCTCAGTAAAGAAAGTCCATCCGTAGAGTACACACTAACAGAG
AGAGACAACAGGCAACGAGGGAGCGTGCTGAGGACCTCTTCTTTGTTTACTGAGGCTTGTCTTGCCACAA
AGGCACATCATCTACCTGTTATTTGTGCTGGTCATGTTTTCTTTGGTATGAATACAGGAAAAGGCTTCTGAC
AGCTAAGATCCTGATCAAATTGGAGGAGCCAGTTATTATACAAACAAATACAACTTCCAGTTTCTTGAAATGAG
ACTTGGCAGATGGATGATGCACGACTCCCTGAAAATCTCTTCAGCATATTGCTGTTGGATGCACAAAAATGATT
TATGATTAGGCAACTCAGTGTTTGTGCTGCAGGGATATTGTATGTTGATTAAAGTGCATATGTGTGTGTGTGT
GTGTGTGTGTGTGTGTTTCTGGGGTAAAAATTTCTGCAGTTGTAAACGTTTAAACATTGCTCCCATTTCTTCC
ACAGGGCCTTAGTTCTTTAGCTATTTGACTACATATTGTTGACCTCAGTGATCCTAAACGTAGAAATTGAAGAGGT
GTATATACCTCGTTAAATTAAATAAGTGTTCAATCTGAATAAGATGGTTAATTGGAAGCTATTCTTAGACAGA
TCATTTCTTTAAGATGGTGAGAAATTGTGCGCTGCATCACAAGACTTGATTATGAAAGATAAAGTCTTGGGCTG
GGTGCAGTGGCTCATGCCATAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTTGAGGCCAGGAGTT
CTAGACCAGCCTGGCCAGCATGGTGAACCCCATCTCTACTATAAAATACAAAAATTAGCCAGGCTCGTGGCACAC
ACCTATAAACCCAGCTACTCAGGAGGCTTGAGGCGGGAGGATCACTTGAGCCCAGGGAGGCAGAGGTTGCTGTAA
GTTGAGATCGCCACTGCACTCCAGCCTGGGAAATAGAGTGAGCAAGACTCAGTGCCCCCTACCCACCCACTCCAC
ACCACCAAAAAAAAAAAAAAAAAAAAAAGGAAGACAAAGTCTGATGGGATGATGATGGCTATATGGCTATGCTG
TGTCCATATATACTTACAGAAATATTTAGACATATGATTTATAGTTAAATCTGTGTTTTCTTCTCCTATGGAT
TTGATTAAATTTAATGAAAACTTAATTCTGACTCCTCAAGCCAATTAAATGAAATGGAATTTATTTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1316

MAHFVQGTSRMIAAESSTEHKECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAEL
KTKLDAAERFLSTREKDPHQQRKDDRQREDDRQRDLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANK
EKEHYECEIKRLNKALQDALNIKCSFSEDCLRKSVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEK
EELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDCQW
YALDQLPPDVQHKANGLSSVKKVHP

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FIGURE 1317

CGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCC
CGGGCTCCGGTGGGGTCCCCACCCGGCCCTCGGGTCCCCGCCCCCTGCTCCCTGCCCATCCAGCCACGCGA
CCCTCTCGCGCGCGGAGGGGCGGTCTCGACGGCTACGGGAAGGTGCCAGCCCGCCCGGATCGGCATCGTGGA
GCCGGGTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGCGCCTGGCGCCGA
CCCGCAGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGG
GTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCCGCCGAGCCGCTTCTTGAGCCTACGCCTACCCGCCGCG
ACCCAGGCGGGCCGGCTTCCCCGGCGGGGCGAGTCTTCCCGCCGCCCGCGGACGCCGAGGGCTACAGCCGGG
CGAGGGCTACGCCGCCCGGACCCGCGCGCCGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCCGG
ACTGGAGGTGTGGGGAACTGAGGGTCGCGCTCAACAACCACTGTTGTGGTCCAAGTTTAAATCAGCACCAGAC
AGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCATTCTGTCTATTACTGTGGCCGGGCTGGAGCCAC
CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGAGCGGCAAGTGGGT
GCAGTGTGGAAGGCCGAGGGCAGCATGCCAGGAAACCGCTGTACGTCCACCCGGACTCCCCAACACAGGAGC
GCACTGGATGCGCCAGGAAGTTTCATTTGGGAACTAAAGTCAACAACAAGGGGGCGTCCAACAATGTGAC
CCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC
AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTTCATTGCCGTGACTGCCTA
CCAGAAATGCCGAGATTACTCAGCTGAAAATGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC
CATGTACACATCTGTTGACACCAGCATCCCTCCCCGCCCTGGACCCAACTGTCAATTCTTGGGGGAGATCACTA
CTCTCTCTCTACCCAACAGTATCTGTTCACGCGCTTCTACCCGACCTTCTTGGCCAGGCGAAGGATGT
GGTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCAAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAA
GCCTGCATTCTTGCCCTCTGCCCCTGGGCCCACCATGTCTTACTACCGAGGCCAGGAGTCTGGCACCTGGAGC
TGGCTGGCCTGTGGCACCCAGTACCCTCCCAAGATGGGCCCCGCCAGCTGGTTCCGCCCTATGGCGACTCTGCC
CATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGAT
TGCCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTA
TCCTTCCAGTGGTGACAGCTCCTCCCTGCTGGGGCCCCCTTCTCTTTTGATAAGGAAGCTGAAGGACAGTTTTA
TAAGTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGGTTGGAGGACACCGAC
TAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGG
GAAGTGGGGCTCAAGAAGGATTTTGGGGTTCAACAGATGCTTCTGGCCACGATGAAACCTGAGAGGGGTGTCC
CCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA
AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTGCATCTAGTGGGTGGGAGGGGTGAGGTGTGGGACATG
GGAGCAGGAGACTCCACTTCTTCTTTGTACAGTAACTTTCAACCTTTTCTGTTGGCATGTGTGTTAATCCCTGA
TCCAAAAGAACAATAACACGTATGTTATAACCATCAGCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGG
ACAGCTGGCCTGGGCTCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGCTGGAAGGGGGGAATGGCCC
ACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTGTGTGTGGGTGTGTGTTTTCTTTTCTTTCTTTTATT
TTTTTTGAATGGGGGAGGCTATTTATTGTACTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCATCACTTTC
TGAAAATAAACATAAACTGTAAAAA

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FIGURE 1318

MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYYPEPGAQDADERRGGGSLGSPYPGGALVPAPPSRFLGAY
AYPPRPQAAGFPGAGESFPPFADAEGYQPGEGYAAPDPAGLYPGPREYALPAGLEVSGKLRVALNNHLLWSKF
NQHQTEMIITKQGRRMFPLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMPGNRLYVHPDS
PNTGAHWMRQEVSGKLLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACNASNTHIFTFQETQFI
AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSSIPSPPGPNCQFLGGDHYSPLLPNQYPVPSRFYFDLPG
QAKDVVPQAYWLGAPRDHSYAEFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMGPASWFRP
MRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEA
EGQFYNYFPN

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FIGURE 1319

ACCGTCTTCCGCCGCACGTGGATTACAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTTCGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTCAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACAGAAATACACAGAAATGGACTACGCCCCGAGCTGGTAACAAAGCAGCTTTCACTGTGAGCCTGGATCCAGG
GCCCCGGAGCAGTTCCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCACC GCCCTCAAGAGAGG
TGTGGTGA CTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCCT
GAAGCTTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTAG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCTCT
GGAGAGAGCAGCTTTTTTATTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAGTAGTTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAACCTCTGTCCC

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FIGURE 1320

MPKSKRDKKVSLTKTAKKGLELKQNLIEELRKCVDTYKYLFI FSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPGPLEQFPHSME
PQLRQLGLPTALKRGVVTL LSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQOMGDDL PES
ASESTEE SDEDD

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FIGURE 1321A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCTGAGGTGACAGCGCCTGCAACTGAAATTCAGCAGCGGGAGAAGATGACAAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCAGTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGTCTGTTACTTCCAGGTATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCACCTGTAAGTGAAGGAAGTTTGAAGTATACAGCAACT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATCTGCAAGCAGACTGCGCACAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAAATCTGATCTCAGCCTGAAGAGCTTAACAGTGGAA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACTCA
CTCTGATTTCCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATCTCAATATTGTAATCTTTGGATA
AGTCAACAGAACAGACAAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAACT
ATCATCAGGATCCAAACTGCCTGAAGAAATTACAACCTAACCTACAAAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGGTTCAACCCTGAAACCGTTGAGT
ACTCTAATTCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGAACCAATCATGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATCTTAAAGTTACAATCTAAGCAAGACCGTGAGACAACATAATG
AAAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTAACATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAAAATAAAGGAGCTTCTAAAGGTTGTGTTACATCACAATAAAT
ATTTAAGATCCCATTTCAAGTGTCCCTGAATGAGATTTTATTGCTAGTGGATACCACACATTTAAAGCGGTTTG
GGTTATGGAAGAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTGAGACCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAACCTACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGAAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTCCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTCTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGCAGAAAGCAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTC
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAATAATGAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTGTAACGAAGTCACATTTTATAGTACTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACCTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAGAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTTCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTTGGAGAAGTGGT
TTCTCGTCATGTAATAAAGACCAACGGGAAGATATTGAGAGCTCATCTTGAACTTCATTTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAATAACTTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAATAATTTTATAAATATTTTATATTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAACTTACATGATCTGTAATCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATCTATT
CTTTGCAGCTCAAGCATGCAGTATGAATACTGTGATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1321B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTCATAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCCTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAGGGTAAAATTTGAAACAAAAAATTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCCTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCTCATAACTTTAACAAAGAAAACCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTTAAATGTTAGCTTTTAGAGACCTATGATCCTCATGGAACCTTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACCTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTAAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTGTTGATTTTGGCACTATCTTTATATTATTAATATATTTGTTGTTTGGATATTTATATAAAGATGGCTAT
AATTACATATTTTATTTCCCAATTTGTGTGTTGGGGGTACTTTTTAAAGGTGACTATTGTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTTGTGTAATTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTAAATTCATTTTCTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAATAAAAAAATACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1322

MDKRKLGRPPSSSEIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLOWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILTNLVLTGTELGRKYIRTPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSESGSRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNDVKYSDS
KVELTLISRKTKRRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFERPSSENYHQDPKLPEEITTKPTKSDFT
KLSSLNSQELTSLNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENEINTIEKPILRGHNEGNQSLISAEPV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLELPLITCESVQMSELCPYNPMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGGLVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQSQAAQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKMKCRPCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPVNFELPIHLEKWFPRHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1323

GGGGACTTCCGGAGACCTCACACAAGATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGA
TTGTGGAAGAGGAGGAACTAAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCACT
TGGGATGGACAAAACCCACCAAGATTCAGATTGAAGCTATTCCCTTTGGCCTTACAAGGTCGTGATATCATTGGGC
TTGCAGAAACTGGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGC
GTTTGTGCTGCTTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTGGGGT
CCTCTATTGGAGTGCAGAGTGTCTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCAAAAA
AACCACATATAATAATAGCAACTCCTGGTCGACTGATTGACCATTGGAAAAACGAAAGGTTTCAACTTGAGAG
CTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAGACAGAGGTTGACAAGATCC
TCAAAGTGATTCCCTCGAGATCGGAAAACATTCCCTCTCTGCCCACCATGACCAAGAAGTTCAAAAACCTTCAGC
GAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATAACAGACAGTTGAAAAATTACAGCAATATT
ATATTTTATTCCCTCTAAATTCAAGGATACCTACCTGGTTTATATTCTAAATGAATTGGCTGGAAACTCCTTTA
TGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCTTTGCTACTGCGAAATCTTGGCTTCACTGCCATCC
CCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAGGATCCCTTAATAAGTTTAAAGCCAAGGCCGTTCCATT
TTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCTTA
CCCATTCCAAGGATTACATCCATCGAGTAGGTGGAACAGCTAGAGCTGGGCGCTCCGAAAGGCTATTACTTTTG
TCACACAGTATGATGTGGAACCTCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACAC
AGGATGATGAGGTTATGATGCTGACAGAACGCGTCTGCTGAAGCCCAAAGGTTTGCCGAATGGAGTTAAGGGAGC
ATGGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTGAGGA
ACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTAAATCACTTTTATGAAGGCTCGAGTTCTGCTGTT
CTGTAAAAGAAAAATTGGAGAATGAAACCTGCTCCAACAGAGATCATGAGACTGAAATTGGTCAGAAATTGTGTCCA
GAATGTGCTCAGCTAATTGAGTATTCTTCCCCATTCTGGGTTGGAGTTTACTGCAGAGTAATCTTACAGTGCTG
ATGTCAAGACTGTTACTGTTCTTCGACTTTGATTCTTGCTCATGACATGAGTAGGGTGTGCTCTTCTGTCACTT
CACACAGACCTTTTGCCTTTTTTAGCTGCAAGTCAAGGACTAGGTTGATGATGCCCATGACCTGTAATTGTAAAG
AAGCTTGACATCTGCAAATGATATTTAAACCATCTTGGCTTGTGCTTTATTCAAACCTAATGTGAAACAATAAAT
TTAAATATTATTTTTTAAAGAAAAA

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FIGURE 1324

MAAPEEHDSPTASQPIVEEEEETKTFKDLGVTDVLCEACDQLGWTKPTKIQIEAIPALQGRDIIGLAETGSGKT
GAFALPIILNALLETPQRLFALVLTPTRELAFOISEQFEALGSSIGVQSAVIVGGIDSMSQSLALAKKPHIIIATP
GRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPRDRKTFLEFSATMTKKVQKLQRAALKNPVK
CAVSSKYQTVEKLQYYIIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTORTALLLRNLGFTAIPLHGQMSQS
KRLGSLNKFKAKARSILLATDVASRGLDIPHVDVVNFDIPTHSKDYIHRVGRTARAGRSGKAITFVTQYDVLEF
QRIEHLIGKKLPGFPTQDDEVMLTERVAEAQRFARMELREHGEKKKRSREDAGDNDDEGAIGVRNKVAGGKMK
KRKGR

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FIGURE 1325

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCCTCCTTGGCTGACTCACC GCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTTCACTGCTGTCCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGTTTTG
TGACATGTCCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCTCCGAGAGTGCCC
CTCGGTCTCTGGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAAATCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCAATTGGCAATGCCAAAGGAGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCCTCTCTGTATAATGCTGTAC
AATTGAAGACGTTCAGAAGCTGGCCGCCCTTATGAAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATCTGACTTGAAGTGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATTTCCCGCTATTTTGCCTTTGCTGCTACTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACTTAAT
AATGCAAGTTGCGATTAAATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCCTGGGTTGAGCGGCTGTTGATTCAAGGTCAACATTGACCATTGGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATTTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCCTTCTCTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1326

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRSVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

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FIGURE 1327

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGGGAGC
GGGAAGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTGGGCTTGGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACCACCCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCAATTTCTTGTGGAGTATCACTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCATTTTCATGGCCAGAGCAGCTC
GCCCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGAATTTTGGCCT
GTGCTTCAATTTCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCT
TCTTTGGTGCAACCCCTAATTGGAAAAGCAATAATAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTCATTGGTGTCTTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGTCTGGATGTTTGAAGAGTTGGTCTGTCTCATGGTGTGTTACTTTCATCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACATAAAGTAGAGAAAAGTTTTAA
ACTGCAGAAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCCTTTTC
CAACCTGTATCAATTTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACCTTGCAGTACATACTTTTTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAAATGTGATGTTTCAGC
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTTCAAAGGCCACATGATACAATTAGAGAATTCCCAC
CGCACAAAAAAGTTCCCTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTACAAAATGATTGCTTTGTTTTT
CTAAGTCATCAAAATGTATATAAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCTGCCCAACCTTCCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGTATTTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCTG
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAACCTGTTCATTTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAA

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FIGURE 1328

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKFFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEKTK

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FIGURE 1329

CTGTGAGTGACACACGCTGAGTGGGGTGAAGGGAATGCTGGTGAATTTCAATTTGAGGTGTGGGTGCTGTTAG
TCACTCTGTCTCTTGCCATTGCCAAGCACAAGCAATCTTCCTTCACCAAAAGTTGTTACCCAAGGGGAACATTGT
CCCAAGCTGTTGACGCTCTCTATATCAAAGCAGCATGGCTCAAAGCAACGATTCCAGAAGACCGCATAAAAAATA
TACGATTATTAAGAAAGAAAACAAAAAGCAGTTTATGAAAACTGTCAATTTCAAGAACAGCTTCTGTCCTTCT
TCATGGAAGACGTTTTTGGTCAACTGCAATTGCAAGGCTGCAAGAAAATACGCTTTGTGGAGGACTTTCATAGCC
TTAGGCAGAAATTGAGCCACTGTATTTCTGTGCTTCATCAGCTAGAGAGATGAAATCCATTACCAGGATGAAAA
GAATATTTTATAGGATTGGAACAAAGGAATCTACAAAGCCATCAGTGAACCTGGATATTCTTCTTCTGATTGA
AAAAATTATTGGAAGCAGTCAGTAAACCAAAGCCAAGTACATTGATTTTACAGTTATTTGAAATACAATAAGA
ACTGCTAGAAATATGTTTATAACAGTCTATTTCTTTTAAAACTTTTAAACATAATACTGACGGCATGTTAGGTG
ATTCAGAATAGACAAGAAGGATTTAGTAAATTAACGTTTTGGATATAAGTTGTCACCTAATTTGCACATTTTCTGT
GTTTTCAAATAATGTTTCCATTCTGAACATGTTTTGTGTCATTACAAGTACATTGTGTCACTTAATTTAAAGTAT
GTAACCTGAATTAACCTCGTGAATATTTGTGTGGAGTGGGATGTGGGGGGTGGAGGGGGAATGACAGATTTCT
GGAATGCAATGTAATGTTACTGAGACTTAAATAGATGTTATGTATATGATTGCTGTTTAAAGTGTGAAAATTG
TTAATTATGCCCAGTGTGAACCTAGTACTTAACACATTTTGATTTTAAATAAATGAGTTTCTTCTC

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FIGURE 1330

MLVNFILRCGLLLVTLSLAIKHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDRIKNIRLLKKKTKKQF
MKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSRLRQKLSHCISCASSAREMKSITRMKRIFYRIGNKGIY
KAISELDILLSWIKKLLESSQ

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FIGURE 1331

TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGG
CCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCT
TGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATA
TCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCTGCTCATTGGGG
AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAG
AAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCA
ACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAGCTGAAGGACACAG
TGAAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATG
CCTGCATTTGACCAGAGCAAAGCTGAAAAATGAATAACTAACCCCTTTCCTGCTAGAAATAACAATTAGATGC
CCCAAAGCGATTTTT

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FIGURE 1332

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLFMSLRNACI

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FIGURE 1333

TTTACTTCCTGCGTCCCCGGACGCCGTATGTGGAAAGGCGAACCCCTGAGTGGAGGATGTTCCCGCTGCCTAAAGA
ATGATTGACTGTGACTGCACTTTTGTGAGATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAA
GAAGACAGCCTGGAAGACTCAAACCTTTTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGACGGACAGGCGAA
CCACCTAGTGCCGTCGAAGAAGAAGGAATACCTAACGAAACAGACATAGAAATCATGCCAGAAATCCCGGAAACT
CTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTTTATT
CTGAACCTACATCATGCCCGTTTCAGTACGATGGGAGACAGAGCATCTGCGTGAAAAGCAGAGAATTGAATCTAGAA
GGAACGAATCTAGACAAACTTGCAATGGGCCTCAACATGACAAAAATACTCAGTCCGTTACTACCTGTGGAAGGA
CCCAATTTGCGCTGATTTTACACCCAGAGGCCGTTTCGCTGTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAA
AAACCTACAAGGCAGACCATCATGACTACGGAGACACTGAAGAAAATTACATTGATAGGCAGTTTTCAGCGAT
GTGATTGCAGATAACCATTAGGAGTTGCAAGATTTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAG
AGGGAAAACAAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAA
AAACAGCTAATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAG
GACCAACTGCAAGAGATGAAGGCAAAATCCAATTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATT
GCCCAGACCCAGAAAAAGTGTAAACAGAACAGAGGAACCTTTGGTGAAGATTTTGAGAACTCAGGATGAAAACC
GAAGAAGAGGCCCGGACTCATAACAGAGATTGAATGTTTCCTTAGAAAGGAGCAGCAGAAACTTGAGGAGAGGCTG
GAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAG
GCCAGTGTCTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGATCGT
ATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAAACAGGATCTCTTGGAAATTAAGAGCGTTATAAGCTCCAGGCC
TGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGAT
TCAAAAGGCAAGGTAAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAGTGACCAAGTTCTCTTTTGTGTTTTCTG
CTGGTATTCTGGAGGTGGGAAGGACTTGGAGAGAGTTAAGAAACACCTGGTACCTCAAAGATGACTCATCTACAG
GTTGTTTCTTATTGAGACTTTCCAGGGAAGCCTGATTTCACTTTGCCTGTTAATTTCACTCTGCCTGTTAGGTG
GGTTTTCAAACCTGATTTAGGATTACACCATTGACTTAGGGCTTCTCATACCTTGCTGGGAAGAAGTTTCTAG
TAGTCTGTGAAGATTCACTTCTTCTGCTCTTTCTCAGCAGAACAAAGGAGTTCACTGGCTTAGCTACAGTGACG
CATTGAACTTGAGTAATCTCTGTAATGTCAGATTTTGATTTTACCCAATTTGTCTGTAGTAAAAAACTCTTAT
GAGCAAAAGTATTCACTAGGAATTACAATATGATGTTATTAGCTGTCCAGCATAATATATACACAGCAAAGTTT
AATAAATGTTGGTTCTGCCTGCCTTTTAAAAA

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FIGURE 1334

MEEDSLEDNLFPKVVHSEMTVSATGEPPSAVEEEGIPNETDIEIMPEIPETLEPLSLPDVLRISAVLEDTTDQL
FILNYIMPVQYDGRQSICVKSRELNLEGTNLDKGLAMGLNMTKILSPLLPVEGPNLPDFTPRGRFAVEFNKMQDLV
FKKPTRQTIMTTETLKKIHIDRQFFSDVIADTIKELQDSATYNSSLQALSKERENKMHFYDIIAREEKGRKQIIS
LQKQLINVKKEWQFEVQSQNEYIANLKDQLQEMKAKSNLENRYMKTINTELQIAQTQKKCNRTEELLVEDFEKLRM
KTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMQNELNALKATKASVLAHLQDLAKMIREYEQVIE
DRIEKERSKKKVKQDLLELKSIVIKLQAWWRGTMIRREIGGFKMPKDKVDSKDSKGKGKDKRRGKKK

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FIGURE 1335

GTCATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGGAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCAG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCCTCGGGAC
TTCCAGACACTGGAAACTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTGCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGCCCTTGAACATTCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAAGTCTGCTCCGGA
AACCAGGTTTCGTGGCTATCCCCTCTCTGCTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTGGAGTCACTGAGGGAGTACGTGGAGTGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCGGTGCTGGCAGCTGAGCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCCATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCAATTGTAAGACTCTG
GCTCTACTTGGGAGGAACCTCTCTAAAAAGGAATTCCCTGGTCTGGCGGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCTGAGCCAGCGAAAGACGAA
CTTTAGGAACACAGTTGGAGGTCACCTCTCCTGCCAGCTCCCGCACCTGCGTTTAGGAGTTCAGTCCACAGA
GGCCACTGGGTTCCAGTGGTGGCTGTTTCAGAAAGCAGAACATACTAAGCGTGAGGTATCTTCTTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAATGTGTAACATCATGGTCACTGTGTAAACATTTTCAGTG
GCGATATATCCCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCTTTGAGACTAAAATAGCGTTGAGGGAA
ATGAAATTGCTGGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAGCACATCCAAAGCATAGTTT
ACCTGCCACGAGTTCTGGAAAGGTGGCTTGTGGCAGTATTGACGTTCTCTGATCTTAAGGTCACAGTTGACT
CAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTCTGGAAGATACCTTCACGGC
CGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGTGATGAAAGCAGCGTTACTT
CTGACCGTGCTGAGTAAGAGAATGCTGATGCCATACTTTATGTGTCGATACTTGTCAAATCAGTTACTGTTCA
GGGATCCTTCTGTTTCTCACGGGTGAAACATGTCTTTAGTTCTCTATGTTAACACGAAGCCAGAGCCACATG
AACTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCATTCTCAGTATCTCATTAAC
CATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTTTCCAGGCCCTGGGTATCCAG
GGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATTCTGTTTCTCAGTAGTCCTT
TAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAAGAATGGGATGCATTTGATCT
CAAGACCAAAGACAGATGTCAGTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTGGCAGCTGTTGATGCCAGTGT
CCTCTAACTCATGCTGTCCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAGCACATACAGGCTTAAGCTCT
AAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCTTTGCATCCAACACTCTTCAC
CCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAGGAATCTTAGAAACAAGACCA
CTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGCCTTAAAGGAAATCTTTATTA
ATCACGTATGGTTCACAGATAATTCTTTTTTAAAAAAACCCAACTCTAGAGAAGCACAACTGTCAAGAGTCT
TGTAACACAACTTCAGCTTGCATCACGAGTCTTGATTCCAAGAAAATCAAAGTGGTACAATTTGTTGTTTA
CACTATGATACTTTCTAAATAAACTCTTTTTTTTAAAAA
AAAAAAAAAAC

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FIGURE 1336

MEDAKVYVAKVDCTAHS DVC SAQGV RGYPTLKL FKPGQEAVKYQGPRDFQTLENWMLQTLNEEPVTPEPEVEPPS
APELKQGLYEL SASNFELHVAQGDHFIKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQ
VRGYPTLLWFRDGKKVDQYKGKRDLESLREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
DTIAEGITFIKFYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICKYSVRGYPTLLLFRGGKKV
SEHSGGRDLDLH R FVLSQAKDEL

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FIGURE 1337

GTCAAGATGCGCGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC
AGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCAITGGGACAGTGGCCACTCCTGTGTTTCATGCCAGTG
GGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAAT
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG
CCTCATAATCTGCTAACGGACAGCGGCGGTTTTCCAGATGGTGTCTGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGGAGAAATCCGTGCAGATCCAGAAT
GCGCTGGGCTCGGACATCATATGCAGCTGGACGAGCTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC
GCCATTATCCAGGGTGGGCTGGACGAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGAGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT
GGATGTGACATGTTGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAAC
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGACCTGCCCCACGTGCCAA
AAGCACAGCCGCGCTTCTCTGCACGCACTGCTGCACAGTGACAACACGCGCGCTGCACCACTCACGGTCCAC
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG
CGGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTCTGTG
GGAATCACACTTGGCTGACCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGCTGGAAGATACTGA
AGGATTCCTTTTTGAAAGGTTTTTTTTTATTGTAACCT

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FIGURE 1338

MAGAATQASLESAPRIMRLVAECSRSRARAGELWLPHGTVATPVFMPVGTQATMKGITTEQLDALGCRICLGNTY
HLGLRPGPELIQKANGLHGFMNWPNNLLTDSGGFQMVSLVSLSEVTEEGVRFRSPYDGNETLLSPEKSVQIQNAL
GSDIIMQLDDVVSSTVIGPRVEEAMYRSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGF
AIGGLSGGESKSQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQ
LRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQLQLMSAVRTSIVEKRFPDFVRD
FMGAMYGDPTLCPTWATDALASVGITLG

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FIGURE 1339

ATGGCCCTGCGCAAGGAAGTCTCAAGTCCATCTGGTACGCCCTTTACCGCGCTGGACGTGGAGAAGAGTGGCAAA
GTCTCCAAGTCCCAGCTCAAGGTGCTGTCCCACAACCTGTACACGGTCCTGCACATCCCCCATGACCCCGTGGCC
CTGGAGGAACACTTCCGAGATGATGATGACGGCCCTGTGTCCAGCCAGGGATACATGCCCTACCTCAACAAGTAC
ATCCTGGACAAGGTGGAGGAGGGGGCTTTTGTTAAAGAGCACTTTGATGAGCTGTGCTGGACGCTGACGGCCAAG
AAGAACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGATGCCTTCCGCCTCTGGTGCCTCTTC
AACTTCCTGTCTGAGGACAAGTACCCTCTGATCATGGTTCCTGATGAGGTGGAATACCTGCTGAAAAAGGTACTC
AGCAGCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCCAGGAGGCCAGGTGGCCCAGACC
ACCGGGGGGCTCAGCGTCTGGCAGTTCTTGAGCTCTTCAATTCTGGGCCGCTGCCTGCGGGGCTGGGGCCGGAC
ACCTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCATCCAAGATGTCCTGAAGCAGGGCTACCTGTGGAAG
CGAGGGCACCTGAGAAGGAAGTGGGCCGAACGCTGGTTCCAGCTGCAGCCCAGCTGCCTCTGTACTTTGGGAGT
GAAGAGTGCAAAGAGAAAAGGGGCATTATCCCGCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCGCGAC
GGAAAGCGCTGCATGTTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCCTCAGACACGCGCCAGCGC
CAGGAGTGGACAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTG
AAGCAGAAACGGCGCGAGCAGCGGGAGCAGCGGGAGCGGCGCGGGCGGCCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGGCCGAG
CGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGAGCCAGCACCCGAGCTGCAGCAGGCGCTCGAGGGCCAAGT
CGCGAGGCGGAGCAGGCCCGGGCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAGGCTGCCCGGCGAGCGG
CAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGGTTGCAGGAGGCCCTGCAACTAGAGGTGAAAGCTCGGCGA
GATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGAAGAGAAGCTGAAGCAGTTGATGCAG
CTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAGAAGGAAGAGCTGCAGCAGGAGATGGCACAG
CAGAGCCGCTCCCTGCAGCAGGCCAGCAGCAGCTGGAGGAGGTGCGGCAGAACCGGCAGAGGGCTGACGAGGAT
GTGGAGGCTGCCCAGAGAAAAGTGCGCCAGGCCAGCACCAACGTGAAACACTGGAATGTCCAGATGAACCGGCTG
ATGCATCCAATTGAGCCTGGAGATAAGCGTCCGGTCACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTCTGCTT
GCCCACCGTACTCCTCCCTAAAGCGCCTGACCCGCTGGGGATCCCAGGGCAACAGGACCCCTCGCCCAACAGC
AATGAGCAGCAGAAGTCCCTCAATGGTGGGGATGAGGCTCCTGCCCGGCTTCCACCCCTCAGGAAGATAAACTG
GATCCAGCACCAGAAAATTAGA

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FIGURE 1340

MALRKELLKSIWYAFTALDVEKSGKVSQKVLSHNLYTVLHIPHDPVALEEHFRDDDDGPVSSQGYMPYLNKY
ILDKVEEGAFVKEHFDELCWTLTAKKNYRADSNNGSMLSNQDAFRLWCLFNFLSEDKYPLIMVPDEVEYLLKKVL
SSMSLEVSLGELEELLAQEAQVAQTTGGLSVWQFLELFNSGRCLRGVGRDTLSMAIHEVYQELIQDVLKQGYLWK
RGHLRRNWAERWFQLQPSCLCYFGSEECKEKRGIIPDLAHCCVEVLPDRDGKRCMFCVKTNRTYEMSASDTRQR
QEWTAAIQMAIRLQAEGKTSLHKDLKQKRREQREQRERRRAAKEEELLRLQQLQEEKERKLQELELLQEAQRQAE
RLLQEEEEERRRSQHRELQQALEGQLREAEQARASMQAEMELKEEEAARQRQRIKELEEMQQRLEALQLEVKARR
DEESVRIAQTRLLEEEEEKLKQLMQLKEEQERYIERAQQEKEELQQEMAQQSRSIQQAAQQQLEEVQRNRQRADED
VEAAQRKLQASTNVKHWNVQMNRLMHPIEPGDKRPVTSSSFSGFQPPLLAHRDSSLKRLTRWGSQGNRTPSPNS
NEQQKSLNGGDEAPAPASTPQEDKLDPAEN

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FIGURE 1341

CTTCTGTGTGTGCACATGTGTAATACATATCTGGGATCAAAGCTATCTATATAAAGTCCTTGATTCTGTGTGGGT
TCAAACACATTTCAAAGCTTCAGGATCCTGAAAGGTTTTGCTCTACTTCCTGAAGACCTGAACACCGCTCCCATATA
AAGCCATGGCCTTGCCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCACTC
TCCTGTTTTTCTTCTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCCAGCCTGCTGTGGTACTGGCCA
GCAGCCGAGGCATCGCCAGCTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCACTGAGGTCCGGGTGACAGTGC
TTCGGCAGGCTGACAGCCAGGTGACTGAAGTCTGTGCGGCAACCTACATGATGGGGAATGAGTTGACCTTCCTAG
ATGATTCCATCTGCACGGGCACCTCCAGTGGAAATCAAGTGAACCTCACTATCCAAGGACTGAGGGCCATGGACA
CGGGACTCTACATCTGCAAGGTGGAGCTCATGTACCCACCGCCATACTACCTGGGCATAGGCAACGGAACCCAGA
TTTATGTAATTGATCCAGAACCGTGCCAGATTCTGACTTCCTCCTCTGGATCCTTGAGCAGTTAGTTCCGGGGT
TGTTTTTTTATAGCTTTCTCCTCACAGCTGTTTTCTTTGAGCAAAATGCTAAAGAAAAGAAGCCCTCTTACAACAG
GGGCTCTATGTGAAAATGCCCCAACAGAGCCAGAAATGTGAAAAGCAATTTAGCCTTATTTTATTCCCATCAATT
GAGAAACCATTATGAAGAAGAGAGTCCATATTTCAATTTCCAAGAGCTGAGGCAATTTAACTTTTTTGCTATCC
AGCTATTTTTATTTGTTTGTGCATTGCGGGGAATTCATCTCTCTTTAATATAAAGTTGGATGCGGAACCCAAAT
TACGTGTACTACAATTTAAAGCAAAGGAGTAGAAAGACAGAGCTGGGATGTTTCTGTACATCAGCTCCACTTTC
AGTGAAAGCATCACTTGGGATTAATATGGGGATGCAGCATTATGATGTGGGTCAAGGAATTAAGTTAGGGAATGG
CACAGCCCCAAGAAGGAAAAGGCAGGGAGCGAGGAGAAGACTATATTGTACACACCTTATATTTACGTATGAGA
CGTTTATAGCCGAAATGATCTTTTCAAGTTAAATTTATGCCTTTTATTTCTTAAACAAATGTATGATTACATCA
AGGCTTCAAAAATACTCACATGGCTATGTTTTAGCCAGTGATGCTAAAGGTTGTATTGCATATATACATATATAT
AT
GTTTTTGTGTATTTGTTAATGGTTTGAATATAAACACTATATGGCAGTGTCTTTCCACCTTGGGTCCCAGGGGAA
TTTTGTGGAGGAGCTCAGGACACTAATACACCAGGTAGAACACAAGGTCATTTGCTAACTAGCTTGGAACTGGA
TGAGGTCATAGCAGTGCTTGATTGCGTGGAATTGTGCTGAGTTGGTGTGACATGTGCTTTGGGGCTTTTACACC
AGTTCCTTTCAATGGTTTGCAAGGAAGCCACAGCTGGTGGTATCTGAGTTGACTTGACAGAACACTGTCTTGAAG
ACAATGGCTTACTCCAGGAGACCCACAGGTATGACCTTCTAGGAAGCTCCAGTTTCATGGGCCCAATTCTTACAA
ACATGTGGTTAATGCCATGGACAGAAGAAGGCAGCAGGTGGCAGAATGGGCTGCATGAAGGTTTCTGAAAATTAA
CACTGCTTGTGTTTTTAACTCAATATTTTCCATGAAAATGCAACAACATGTATAATATTTTTAATTAATAAAAA
TCTGTGGTGGTCGTTTTAAAAA

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FIGURE 1342

MACLGFORHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYLIGINGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTPECEKQFQPYFIPIN

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FIGURE 1343

ATGCGGCCTCAGCAGCGCGAGGTGCTGCGGCGCTGCGTAGAAGTATCAATCAGCCGGTTGCTTTTGTGAGAAGA
ATTCCTTGGACTGCGGCGTCGAGTCAGCTGAAAGAACACTTTGCACAGTTCGGCCATGTCAGAAGGTGCATTTTA
CCTTTTGACAAGGAGACTGGCTTTCACAGAGGTTTGGGTTGGGTTTCAGTTTCTTCAGAAGAAGGACTTCGGAAT
GCACTACAACAGGAAAATCATATTATAGATGGAGTAAAGGTCCAGGTTCACTAGTAAGGCCAAAACCTCCGCAA
ACATCTGATGATGAAAAGAAAGATTTTTGA

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FIGURE 1344

MAASAARGAAALRRSINQPVAFVRRIPWTAASSQLKEHFAQFGHVRRCILPFDKETGFRGLGWVQFSSEEGLRN
ALQQENHIIDGVKVQVHTRRPKLPQTSDDDEKKDF

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FIGURE 1345

CCTGGGCCAGCATGGCGGCGCCCATGTAACCCGGTCCGTGCCGCAAAGCGAACGGCGGGCCGCGGCGGGGCCCCG
CGGGGGTTAGAGGTCACCATGCTGAGGGTCGCGTGGAGGACGCTGAGTTTGATTGCGACCCGGGCAGTTACCCAG
GTCCTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTTCAACCAGTGGGGCCTGCAGCCTCGAAGT
CTCCTCCTCCAGGCCGCGCGCGGATATGTCGTCCGGAACCAGCCCAGTCTAGGCTGGATGATGACCCACCTCCT
TCTACGCTGCTCAAAGACTACCAGAATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGTCT
TTGGAAATGGCCAACAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCAAACCCA
GAGGACACCAGATCCCTGGAGGCTCGAATTATTGCCTTGTCTGTCAAGATCCGCAGTTATGAAGAACACTTGGAG
AAACATCGAAAGGACAAAGCCCAAAACGCTATCTGCTAATGAGCATTGACCAGAGGAAAAAGATGCTCAAAAAC
CTCCGTAACACCAACTATGATGTCTTTGAGAAGATATGCTGGGGGCTGGGAATTGAGTACACCTTCCCCCTCTG
TATTACCGAAGAGCCACCGCCGATTTCGTGACCAAGAAGGCTCTGTGCATTTCGGGTTTTCCAGGAGACTCAAAG
CTGAAGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCCAAAAACAAGCAAAGCGGAGGAACCCAGACAGC
CCTGCCAAAGCCATACCAAAGACACTCAAAGACAGCCAATAAATTCTGTTCAATCATTAAAAAAA

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FIGURE 1346

MLRVAWRTLSLIRTRAVTQVLVPGLPGGGS AKFPFNQWGLQPRSLLLQAARGYVVRKPAQSRLDDDDPPPSTLLKD
YQNVPGIEKVDDVVKRLLSLEMANKKEMLIKQEQFMKKIVANPEDTRSLEARIIALSVKIRS YEEHLEKHKRDK
AHKRYLLMSIDQRKKMLKNLRNTNYDVFEKICWGLGIEYTFPPLYRRARRRFVTKKALCIRVFQETQKLKRRR
ALKAAAAAQKQAKRRNPDSPAKAIPKTLKDSQ

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FIGURE 1347

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCTTGGTGTCTGTGCCCACCACATCATCCCTACGGGC
TCTGTGGTCATCCCTCTCCCTGCTGCATGTTCTTTGTTTCCAAGAGAATTCCTGAGAACCGAGTGGTCAGCTAC
CAGCTGTCCAGCAGGAGCACATGCCTCAAGGCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGC
GACCCCAAGCAGGAGTGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAACACCTGCTTAA

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FIGURE 1348

MAGLMTIVTSLFLGVCAHHIIP TGSVVIPSPCCMFFVSKRIPENRVVSYQLSSRSTCLKAGVIFTTKKGQQFCG
DPKQEWVQRYMKNLDAKQKKASPRARAVAVKGPVQRYPGNQTTTC

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FIGURE 1349A

GGGGGCAGAAAAGGGGGCGGCGGACTCGGCTTGTGTGTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCC
GCAGTCCTGCCAGCTGTCCGACGATGTCGTCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAATAACAACA
ACTGCGAGGAAAATGAGCAGTCTCTGCCCCGCCGGCCGGCTCAACAGTTCCTGGGTGGAGCTACCCATGAACA
GCAGCAATGGCAATGATAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACA
ATGGAGACATGGAGAAGATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACT
GTGACAGCCCTTCGCCACAAGAAGATGGGCAGATCATGTTTGTATGTGGAATGCACACCAGCAGGGACCATAGCT
CTCAGTCAGAAGAAGAAGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCAGGACTGGGTATCAG
ACTGGTCCAGTAGACCCGAAAACATTCCACCCAGGAGTTCCACTTCAGACACCCCTAAACGTTCTGTGCTTTTAA
GCATGAGGAAAAGTGGAGCCATGAAGAAAGGGGTATTTTCTCCGAGAATTTCTGAAGGTGTTTCATTCCATCTC
TCTTCTTTCTCATGTTTTTGGCTTTGGGGCTAGGCATCTATATTGGAAGCGACTGAGCACACCCTTCGCCAGCA
CCTACTGAGGAAAAGGAAAAGCCCTGGAATGCGTGTGACCTGTGAAGTGGTGTATTGTACAGTAGCTTATTT
GAACTTGAGACCATTGTAAGCATGACCCAACCTACCACCCTGTTTTACATATCCAATTCCAGTAACCTCTCAAAT
TCAATATTTTATTCAAACCTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTTGGCCTGAAGACATTTTAGAAT
TTCCTAACAGAGTTTACTGTTGTTTAGAAATTTGCAAGGGCTTCTTTCCGCAAATGCCACCAGCAGATTATAAT
TTTGTGAGCAATGCTATTATCTTAATTAGTGCCACCAGACTAGACCTGTATCATTTCATGGTATAAATTTTACTC
TTGCAACATAACTACCATCTCTCTTAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTA
GTTGTTTTTTTTTCCCCCAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAGAAAACAAAAC
AAAAAAAAGGCAAGGCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAGCTTTGGAGCCA
CTTTTTTGTCTAAGCCTCCTAATAGCGTCTTTTAAATTTATAGGAGGCAAACTGTATAAATGATAGGTATGAAATA
GAATAAGAAGTAAAATACATCAGCAGATTTTCTACTAGTATGTTGTAATGCTGCTTTTTCTATGGTGTAGAATC
TTTCTTTCTGATAAGGAACGTCCTCAGGCTTAGAAATATATGAAATTGCTTTTTTGAGATTTTTGCGTGTGTGTTG
AATTTTTTACGATAAATTAGCTGCATGTGAATTTTTCATGACCTTCTTACATTTTTTATTTTTTATTTCTTTAT
TTTTTTTTCTCTAAGAAGAGGCTTTGGAATGAGTTCCAATTTGTGATGTTAATACAGGCTTCTTGTTTTAGGAAG
CATCACCTATACTCTGAAGCCTTTAAACTCTGAAGAGAATTGTTTCAGAGTTATTCCAAGCACTTGTCGAACCTTG
GAAAAACAGACTTGGGTGTGGGAACAGTTGACAGCGTCTGAAAAGATGCCATTTGTTCTCTGATCTCTCA
CTGAATAATGTTTACTGTACAGTCTTCCCAAGGTGATTCTGCGACTGCAGGCAGTGGTCATTTTCTCATGTAGC
TGTCTTTTTCAGTTATGGTAACTCTTAAAGTTTCAAGCACTCAACAGATTCTTTCAGTGATATACTTGTTCGTTT
ATTTCTAAAATGTGAAGCTTTAGGACCAAATTTGTTAGAAAGCATCAGGATGACCAGTTATCTCGAGTAGATTTTC
TTGGATTTTCAAGCATCTAGCATGACTCTGAAGGATACCACATGTTTTATATATAAATAATTACTGTTTATGATA
TAGACATTGATATTGACTATTTAGAGAACCGTTGTTAATTTTAAACTAGCAATCTATAAAGTGCACCAGGTCAA
CTTGAATAAAAAACTATGACAGACAGGTTTGCCAGTTTGCAAGAACTAACTCTTTTCTCACATCAACATTGTGA
AAATTGATGTGTTATAGTGGAATAACATATAGATTAAACAAAATTTTATCTTTTTTCAAGAATATAGCTGGC
TATCTTTAAGAAAGATGATATATCCTAGTTTTGAAAGTAATTTCTTTTTTCTTTCTAGCATTGATGTCTAAAT
AATTTTGGACATCTTTTTCTAGACCATGTTTCTGTCTTACTCTTAAACCTGGTAACACTTGATTGTCCTTCTAT
AACCTATTTATTTCAAGTGTTTCATATTTGAATTTCTTTGGGAAGAAAGTAAATCTGATGGCTCACTGATTTTGA
AAAGCCTGAATAAAATGGAAGACTGGAAAGTTAGGAGAACTGACTAGCTAACTGCTACAGTATGCAATTTCT
ATTACAATTGGTATTACAGGGGGGAAAAGTAAAATTACACTTTACCTGAAAGTGACTTCTTACAGCTAGTGCATT
GTGCTCTTTCCAAGTTCAGCAGCAGTTCTATCAGTGGTGCCACTGAAACTGGGTATATTTATGATTTCTTTTCAAGC
GTTAAAAAGAAACATAGTGTGCCCCTTTTCTTAAAGCATCAGTGAAATTATGGAAAATTACTTAAACGTTGAAT
ACATCATCACAGTAGAATTTATTATGAGAGCATGTAGTATGTATCTGTAGCCCTAACACATGGGATGAACGTTTT
ACTGCTACACCCAGATTTGTGTTGAACGAAAACATTGGGTTTGGAAAGGAGAATTCAACAATTAATAGTTGAAA
TTGTGAGGTTAATGTTTAAAAGCTTTACACCTGTTTACAATTTGGGGACAAAAGGCAGGCTTCATTTTTTATA
TGTTTGATGAAAACCTGGCTCAAGATGTTTGTAAATAGAACTAAGAGCAAACTGCACAACTTGCACATTGGAAG
GTGCAACAAGTTCCCGTGATTGCAGTAAAAATATTTACTATTCTAAAAAATGAGAATTGAAGACTTAGCCAGTC
AGATAAGTTTTTTCATGAACCCGTTGTGGAAATTTTGAATTAAGTGAAGCTTATGCAATCTTTCATC
TATTTTAGTTAGCACTTTGTATCGTTATATACAGTTTACAATACATGTATACTTGTAGCTATAACATTTTGTG
CCATTAAAGCTCTCACAAAACCTTTTCTGTGCTAGTATATCATTTTTCTGTGCGACCTGTTGCTGGGAGTTTCAGG
CGATGAGGCCTCTCGCTACACACAGCCTTCCAGTCATCTGGCTTCCCCAGCAGTGGAGTTCTTAACAGTGCTC

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FIGURE 1349B

AGGGTGTGAACGGTGTTCCTGTGGGGACAGTCACCGCAGTGTGAGCATTTCGTGAGTGCCTCGGGACTGTGGCATT
AGAGCATTTCCTCCAGGTAGTGGCAGGAGGGCGCTCACGGGAGGAGTGCTCAGGAAGTACAGGAGAGAAGAAGA
GTGTGCCCTGATGGAAATGACAGTGGGACACCAGTGAAAGTGGATCCAGAAGGAAGTGAAGTCCACGTGCCCTG
GAAAACAGGATGGATACAGAGGAACTGAAAAATGTAGGTTAGTACTGAACCTAATTGAAATGTGTGTGCCCTCC
CAGGGGTCACACTTCATCATATAGTTAGCTGGGTTTACTTCTTTTAAACCAGGAGGTGATTTAAGATGTAAATTT
TAGACAGTCAAGCCATCTGGTGAGAGAGTACCAGAGGAGATCAATCAGTTCTCTAGGCGAGGAGCTAGGGCCTGT
CCTGGGCTGTCAACCCTGAGGTTGGCAGTGGTGGGCCAGGATACGTATGAGAAACAAAGCGGAAGTAACTGGTCA
GAAAGTGAAGTGTAGAGACGAAGGCGTGTGTATTCTTTGTGTGTGTGGCCCGTAAACATGGGTTGATCCATTAG
TTAAAGGAGGACAGGAGAAGAAATGGGGTGGTAGGAGCAAAGAGGGAGGATTCAGTTTTGAGTGCCTTGAACAT
GAAATGTCTGAGGGCCTTCTGATTGGACACTTACTCC

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FIGURE 1350

GQKRGRRTRLVLLPECRRRSCCRSPASCPTMSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNS
SNGNDNGNGKNGGLEHVPSSSSIHNGDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSS
QSEEEVVEGEKEVEALKKSADWSDWSSRPENIPPKEFHFRHPKRSVLSMRKSGAMKKGIFSAEFLKVFIPSL
FLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1351

GCGGCGGACTCGGCTTGTTGTGTTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCCGCAGTCCTGCCAGCTG
TCCGACGATGTCGTCCTCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAACAACAACACTGCGAGGAAAAATGA
GCAGTCTCTGCCCCCGCCGGCCGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA
TAAITGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACAATGGAGACATGGAGAA
GATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACTGTGACAGCCCTTCGCC
ACAAGAAGATGGGCAGATCATGTTTGATGTGAAATGCACACCAGCAGGGACCATAGCTCTCAGTCAGAAGAAGA
AGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCGGACTGGGTATCAGACTGGTCCAGTAGACC
CGAAAACATTCCACCCAAGGAGTTCACCTTCAGACACCCTAAACGTTCTGTGTCTTTAAGCATGAGGAAAAGTGG
AGCCATGAAGAAAGGGGTATTTTCTCCGCAGAATTCTGAAGGTGTTTCATTCCATCTCTCTTCTTCTCATGT
TTTGGCTTTGGGGCTAGGCATCTATATTGGAAGCGACTGAGCACACCCTCTGCCAGCACCTACTGAGGGAAAGG
AAAAGCCCCGTGGAATGCGTGTGACCTGTGAAGTGTTGTTGTCACAGTAGCTTATTTGAAGTTGAGACCATTG
TAAGCATGACCCAACCTACCACCCTGTTTTTACATATCCAATTCCAGTAACCCCTCAAATTCAATATTTTATTCAA
ACTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTGGCCTGAAGACATTTTAGAATTCCTAACAGAGTTTA
CTGTTGTTTAGAAATTTGCAAGGGCTTCTTTTCCGCAAATGCCACCAGCAGATTATAATTTTGTGCGCAATGCTA
TTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTGTTGTTATAAATTTTACTCTTCCAACATACTACC
ATCTCTCTCTTAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTAGTTGTTTTTTTTCCCC
CAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTTAAAAGAAAAACAAAACAAAAAAAAGGCAAG
GCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAAAAAAAAAAAAAA

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FIGURE 1352

MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNSSNGNDNGNGKNGGLEHVPSSSSIHNGDMEKIL
LDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSSRPEN
IPPKEFHFRHPKRSVLSMRKSGAMKKGIFSAEFLKVFIPSLFLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1353

GGGTGGAGTGTAGGCCAGGGGGTTGGCGGTGCCGTGTCTATGGAGGCTCAGTCTCTGAGCAGCCATTGAAGGGGAA
GGAAGTGC GG GTGTGTGTGTGTATGTGTGTGTGTATGTGTGTGCGCGCGTGC GTGTGTGTGTGCGCGCGCTAG
TGTGTGGACAAGGAGGTGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGGACTCCATTGCTATTCTCTTCTTTCT
CCCCACACCTATCTGGTGGTGGTAGTGGGCGTTTATATTGCGTTCCTTTTCAATTCATTTCTAAATCTCTTAAA
AATTTTGGGTGGGGGTATTGGGGAAGGCAGGAAAGGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACA
TGGAGATGAAGAAGAAGATTAACTGGAGTTAAGGAACAGATCCCCGAGGAGGTGACAGAGTTAGTCTTTGATA
ATTGCTGTGTGTCAATGGGGAAATTGAAGGCCTGAATGATACTTTCAAAGAAGTGAATTTCTGAGTATGGCTA
ATGTGGAAGTAAAGTTCGCTGGCCCGCTTCCAGCTTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATA
TTTCTGGAGGCTTGGAACTCTGGCAGAGAAATGTCCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAA
AAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTGAAAAGTCTTGACCTGTTAACTGTGAGATCA
CAAACCTGGAAGATTATAGAGAAAGTATTTTGAAGTCTGCGAGCAATCACATACTTAGATGGATTGATCAGG
AGGATAATGAAGCGCCGACTCTGAAGAGGAGGATGATGAGGATGGCGATGAAGATGATGAAGAGGAAGAGGAAA
ATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAGGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAG
ATGAAGATGAAGCAGTTTCAAGTGGGAGAGGGAGAAGAGGAAGTGGGCTCTCATACTTAATGAAAGAAGAAA
TTCAGGATGAAGAAGATTATGATGACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTC
GAGGGGAGAAGAGGAACGAGATGCTGAAGACGATGGAGAGGAAGAAGATGACTAGATCATCTAAGACCAGATT
CTCTAATGTTTCTGGGTGTGCAATAGAGTGATCACATCTTGTGTTCTTCATGTACGATAGCTATCCCTACAGAAG
ATAATGTGTAACTTTTATAGGAAAAGTGTGGTTTTACTATTTTTTGCCCTATCATTCCAAATAAGAAGTGTGCTG
TTAATGATCATATTGTATGTAGAGAAAAATTTTCATTGACTCCCATTTGTGGAATCCCTAGCAATTTATTTAGAC
TTAATTTTTTTAAATCAAGCTTACTGTATTAGTCATTTTTAGCCCATAAATAAAAACATGATCACTTTTACACAGG
TGTAGTATGGTGCATTTCAATTCCTTATTATATAAATTAAGTGAATTAACAGTTTGCTATAATATAAAATGACAATA
GTCTCTTGAGTGGTAAGTTGGTTATTTTTTTAGAGGTGATCCAGGAATCTTAGTGTGAAGGCAGTTACCNNNNN
NNNNNNNNNNNNNNNNNGACTAAGAGTGTGGTGGCTTTTTGTGCACAAGTAACTTGGAAAAATAGAAGCAGAA
AGTAAAGGTTCTATTCAGCAACATAGTTCATGGATTTTGTGGAGGTTCTATTCAGTAATATGGTTCATGGATTTA
GTGGTGACTGATAAGATTTTATTTTTGAAGGAAAAATGCTTATACTAAGTCCAGAGACATGCAGGTGAGCCCTT
TTGTGAGGCTGCAATCATGACATGCCGATGGTGTGTTATTTTGTGTTTTAGGTGTGCATTCTTTTCTTCTTAGC
AATTCCTTTATGATCACCTTCCCTTCTGTTTCACTCCCTCCCGCTCTCTCAAAGGAACCTGGGAACTTGTGA
AACCAGGAAAACCTTTAGTCTTATACCTCAACTACCTTCAGTCCGTGCTGGGTTTTAAATAAGTGAAGTAGAA
GAAATTGAGTATTTTCTGACATAAGAATATATTATCAATACAGTTTTATGCGAGTAAGCTCTCCTTACCATAAATG
TTTCTTGGTTGACAACATCTAAGACAATATTAGTGGGATGAAGAAAGAAAAGCAGGGGTGCTTTTGAAGCAGTG
TTAGTGTTCCTCAAAGTCCGAACAATTGCCTGTTGATATATTAATAAGACATTAAAGTCAAATTTAATGTTGG
CCTCTCAAATGATTTGGATACCACTCTGCAAAGTATTTCTAACCTTTAATTTCCAGTTTTAAACAGATATAATA
ATAGCATTTAATTGGAATATACTAGGCAGCTGGAAAAGTATTTGAAACTAAATGACATTAAAAATTAAGATTTGT
TTTCAAGTGGATGTCCATAAAAGTAGAAAAATATTTGGGATAAGTGAGTGTGTGTTTCCCTTACATGGCTACTAA
ATAAAATATAATGAGTATACAAGTATATCTCTCTTTTGCTATGGAGGCTCCATGTTCAAGGCAATGGCTTTTTA
AATCTTGGCTATCTAAAATTTTTTCCCTTGTGTTTGAATATTGTAAGTTTTTAAGAAGTTAGTGTGAGCAAAAT
AATTGAAGTTATGCTTCTATAGTCTGGGACATATTTAAATACTGAGTATAGTACTGCTACTGCTTCTACAATGT
AAAAATGATGACTGTGGTGTGTTTAAAGATAAAATATGATGTTACTGTGAGGAACTAAAAATGTTGTACAACGTG
ACCGAAAGAAAACCTTGGGGATAAGTTTAGTGAGGGGATGGAATCCCCAAAGATAACATTTTTCTTCTGCT
TTTTAAACTGAAATTCCTGTTCTAGTTTCTTAACAATCTCATTACATACTATGCCAGATTACAAAATACTTAT
TTTTAAATGAAATCTATATATTGACTTTCTTATCAATCATTTACTGTGCAATCAAATTAAGTACTTTGGTT
TGAAAACAACACTTAGAGCCTCCAGATAACTTTAAGACTTATTTAGCTTTGTGGGTGGTATTTTCATGCAATA
AGTAAGGGTGGGTTTTATATTTGTAGAAGTTTTCGGTCTTATTTAATGCTCTTTGTATGGCAGTATGTATATA
TTGTGTTAAGTTCCTCAAGAACTCTCCTTAAAAACTTTGAAGTTAATACTTTTGTGCAACTGTGTTTGAATAAAG
CCATGACAGTGTTAAAAACAAACAAAAAATTTGCAGTACTCCTGATTATCTTTTATTGTTTTTGACTGTTCCC
TGTTTTTTTCTGTGACTGCTGTAACTTAAAGTTTTTGAAGTGAATTGCTTCAAATAAATGAAGATTGTTATA
ATGATTAACT

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FIGURE 1354

MEMKKKINLELRNRSPEEVTELVDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLPSLNKLRKLELSDNI
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKS LDFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEEDEDEDGEDDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGEGEEVGLSYLMKEE
IQDEEDYDDYVEEGEEEEEEEGGLRGEKRKRDAEDDGEEEDD

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FIGURE 1355A

GCGGCCGCTGAATTCTAGGGCGGAGCGAAGAGAACCGGTGCGGGCAATCCTAGCGCGCAGCAGCAGCAGCAGCAG
CAGCACCCGCATCCGCTGCGGGAGTCCGAGCCGGAACACACCCCAAGTAGCTGCCCTTTCTCTTCTGTCATCTC
ACCGCCCCACCACAGACCGCGTTCCCGGAGGAAACCGGCCGCCACGCCCGGAGCATCTCCCTGTTGAGCGGG
CGCTGACGGACCCGGCGGCATGATGCGGCTGCGAGGCTCGGGGATGCTGCGGGACCTGCTCCTGCGGTGCCCCGC
CGGCGTGAGCGXGACTCTGCGGCGGGCACAGCCCTTGTTACCCCTGTGCCGGCGTCCCGAGGCGGGGGACGGCC
GGCCGCGGGCCCGGCTGCCGCCGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCTGGCCGGCGGAGCCCTCGC
GCGGGGCTGTCCAGCTCTCCTTCGGAGATCTTGCAAGAGCTGGGCAAGGGGAGCACGCATCCCCAGCCGGGGT
GTGCCACCCGCTGCCCGGCGCGCCCGGCCCAAGGACGGCCCGGGGAGACGGACGCGTTTGGCAACAGCGA
GGGCAAGAGCTGGTGGCCTCAGGTGAAAACAAAATAAAACAGGGTCTGTTACCTAGCTTGAAGATTTGCTGTT
CTATACAATTGCTGAAGGACAAGAGAAAATACCTGTTTATAAATTTATTACAGCACTCAAATCTACAGGATTGCG
AACGTCTGATCCAGGTTGAAAGAGTGTATGGATATGTTAAGATTAACCTCTTCAAACAACATCAGATGGTGTCTAT
GCTAGACAAAAGATCTTTTTAAAAATGTGTTTACAGAGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAGTT
TGTGATTCTGACTTTATGTCTTTTACCTCACACATTGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGG
AAAGGTTGCAGATTATATTCCTCAACTGGCCAAATTCAGTCCCGATTGTGGGGTGTGTCTGTTTGTACAGCAGA
TGGACAGAGGCATTCTACTGGAGATACCAAAGTTCCTTCTGTCTTCAGTCTGTGTAAAACTTTGAAATATGC
CATTGCTGTTAATGATCTTGGAACTGAATATGTGCATCGATATGTTGAAAAGAGCCGAGTGGACTAAGATTCAA
CAAATATTTTTGAATGAAGATGATAAACACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCACT
AATAAAGCAAGGAGTAAATAATGCTGAAAAATTTGACTATGTGCAGTTTTTGAATAAGATGGCTGGTAATGA
ATATGTTGGATTGAGTAATGCAACGTTTCACTCTGAAAGAGAAAGTGGAGATCGAAATTTGCAATAGGATATTA
CTTAAAGAAAAGAGTGTTCAGAAAGGCACAGACATGGTTGGTATATTAGACTTCTACTTCCAGCTGTGCTC
CATTGAAGTGACTTGTGAATCAGCCAGTGTGATGGCTGCGACACTGGCTAATGGTGGTTTCTGCCCAATTACTGG
TGAAAGAGTACTGAGCCCTGAAGCAGTTCGAAATACATTGAGTTTGATGCATTCTGTGGCATGTATGACTTCTC
AGGGCAGTTTGCTTTCCATGTGGTCTTCCGCAAAATCTGGAGTTGCTGGGGCATTCTTTAGTTGTCCCCAA
TGTTATGGGTATGATGTGCTGGTCTCTCTCTGGATAAGATGGGCAACAGTGTAAAGGAATTCACTTTTGTCA
CGATCTTGTCTCTGTGTAATTTCCATACTATGATAATTTGAGACACTTTGCAAAAAACTTGATCCTCGAAG
AGAAGGTGGTGATCAAAGGCATTCTTTGGACCATTGGACTATGAAAGTCTCCAACAAGAACTTGCTTTAAAGA
GACAGTATGGAAAAAGTGTCACCTGAGTCAAATGAGGACATCTCTACAAGTGTAGTATATAGAATGGAAAGTCT
GGGAGAGAAAAGCTAAAGAAATGGGTCTAGTTTCAGAAATGTTTCTTCATTTAATCTTTCAAACATCTTTAGCTT
TTTTTTGCAAGTTATAATATTTTATTTGAGGTATTTTTGTTCTCAATCTTGGGTGCTGGAGCCATAAAGCTTTT
TTTTCTTTTAAATCTTTGTATAAAGGCAGTAGATTAAGAAGTGCATTGTTGGTCTTTAAAAAGTATTTACAAGT
ACATAAATTTGCTTTATTTTTAAAAATACAAAAGGAAAAATTTAAATTTTTTTGATGTAATTAATGTTAAC
TATGTGGTCAGATAATCCCATTTTACAATAGTAACAGAAAATTGTAATCTTAGTTCTAAAATTCACAAATTTAA
CTCATAAGCTTTGTGCAATTTGTTTTCTTTTCCATTTTAAACTAATGTGATGCTTTAGTGGCAATAGAA
GGTACTTCTATGCTAAATACAAAATAAAAAGGCAAAATAATGAACCCCAAATTATTTTATTTAAATAGCAGTG
GATTATAAATTTAGCTTGTTTACATTTATGCCATTTTGGTGATAGATTGGCTTTACATTTTAAAAATTTAT
TTAAAAATTTATCAAATGCTTTAAATATGACTCTACTTTTTTTATTTTGCAACTCCTGTCTGTGAGAGTT
GTTATATACAGGAGTGTCTTATGTTACTAAAACATTCCAGCCAAAGAATTCAGATGTGAGATAATGATGTTTCA
TCAATAAAAAGCTATAATGGTTAGTTACTCAGAAGGAGAAACAGTGAGTGTCTCAAGTGAATTGTTACCTAAA
CAATTTTATTTTATATTTATCCACATAACTTTTTCTATGTTATATTTAAATATGAATGGCAAATTTGGTTTTTA
GCTTTTACATTTTATATCTTAATTTTATAAATGCTAATATTTCTTTTGTGATAAGTTATAGCATCTCATAAAGT
TTGTTCTATTTGAAGTTTTTTAGAGTACTTGAGAAATGAATTTAGTCTGCAGGTAGTAAGTATGCTACTAAAATA
CGTTAGATCTAAATCCTTTTATTTGGTATAAAAATGCAATATTGAGAATCAAAACTTGTTTTTAAGAGAACTATA
GATTCTACACAACCTGATTTCAAGTAATTATTCATAGTATTTATAGTTGCTTGGCAAAGTGATTGTAATTTCT
GTAGGACCTATTACACTTCTTCTTCTCCATATACTTCTCTGTTTTCCCATAGTTCCTCTATAATTTCAAG
TTTGTGAAACCTGTTAATTTTAGTGGGGGATTAGAAGAAAACCTGGTGGTTTCTTAGCATGATGGTGTATGTA
TGTGGTAATGGAAAGTCTGTAAGTAATATAGTGTAGXAAAAAGATTTCACTGAGTATTTAGATACTAGTG
XAAATAAAGATAGAAAATCTTGATCATAATGTCTTAAGTTGGGAAGTGTGATTAAGAAAAGAAATTCCTTC
TAGAGGTGCTGGCCAAAAAGCCTTTTGGGCTAACTTAAGTATTAAATTTATATATTTAAATAATTATATTTTAAG

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FIGURE 1355B

TTGTAGAGGATTTTCCCAAGGATTTTATGCTTACTTGAATGTTCTTTGAATGTTTCAGATGCATATCCTAAXCTGG
ATGCTTCTCAAGGCCCTTACTGCATATTTGTGTTGCATATTTATGTTAGTTGCACCAGGGCCATTTGTAGTTTG
CAACCGAATGCCTTAATTGGAAAAAGGCATTGTGGTTTCCCCTATTATCTAAATTGTTACATTTTACCATTTCA
TTCCGAAGTTGGTTTTACTTTATTAAATGAAGATTTAGTTTTCATATCGTATACXTAGCTGTATAGATTTCAAAA
TTAGGTTGTTAATTTGTGTCACCTTACTATTTTTGTGTTGGTAATGCTTTAAATGCATACTTAAAAATGAAGTACT
GTTATCTAAGCTACTGTGTTTAGAAAAATGTTAAGAATGAGCAGAAATTTTATAGAAAAGATAAACGGAAGAAGA
GATAAGATACTGCGAATAGGCCCTCAAACCTAAAAAGAAAAAACTTTGCCAGTTTTAAGGACATATTTTGATTC
TTTCAGTATCTTAACACCTTTTTAAACAAAGTTCTTGATAGTACCACIATTATTGGGTTTGTTTTATGCCATTAT
TGATTCTTGATATTCAAGCATTTACAATGTAGCATATTTGATTTTCTTTTTCTTTCTTTTTTTGGCATGTTTTT
AGCATAAATGTTGCATTTTATCTTAGTGTTGGATGAAAACATTTGTGTTGTTTAGCTTTCATTGCTTTGTATA
TTAATAATGTACCTTTATTTTCCAGTATGCCTACATTTTGTATTGCACAATAAATTTATTTTAAGCTGAAAAA
AAAAAAAAAAAAA

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FIGURE 1356

MMRLRGSGMLRDLLLRSPAGVSXTLRRAQPLVTLCRRPRGGGRPAAGPAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAGPKDGPGETDAFGNSEGKELVASGENKIKQGLPSLEDLLFYTIAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVLLTQAFRRKFVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTADGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAIVVTSLIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYFYQLCSIEVTCEASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMMCMWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRFHFAKKLDPRREGGDQRHSFGPLDYESLQQELALKETVWKKVSPESNEDISTTVVYRMESLGEKS

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FIGURE 1357

AAGATCTAAAAACGGACATCTCCACCGTGGGIGGCTCCTTTTTCTTTTTCTTTTTTCCACCCTTCAGGAAGTG
GACGTTTCGTTATCTTCTGATCCTTGACCTTCTTTTGGGGAAACGGGGCCCTTCTGCCAGATCCCCCTCTCTTT
TCTCGGAAAACAACTACTAAGTCGGCATCCGGGTAACAGTGGAGAGGGTTTCCGCGGAGACGCGCCGCGG
GACCCCTCTCTGCACTTTGGGGAGGCGTGCTCCCTCCAGAACC GGCGTTCTCCGCGCGCAAAATCCCGGCGACGCG
GGGTGCGGGGTGGCCGCCGGGGCAGCCTCGTCTAGCGCGCGCGCGCAGACGCCCCCGGAGTCGCCAGCTACCG
CAGCCCTCGCGCCCACTGCCCTTCGGCCTCGGGGCGGGCGCCTGCGTCCGTCTCCGCGAAGCGGGAAAGCGCGG
CGGCCGCCGGGATTTCGGGCGCGCGGCAGCTGCTCCGGCTGCCGGCGGGCGGCCCGCGCTCGCCCCGCCCGCTT
CCGCCGCTGTCTGTGCACGAACCTTTCCAACCTCTCTTTCTCCCCACCCTTGAGTTACCCCTCTGTCTTT
CCTGCTGTTGCGCGGGTGCTCCACAGCGGAGCGGAGATTACAGAGCCGCCGGGATGCCCCAACTCTCCGGAGGA
GGTGGCGGCGCGGGGGGACCCGGAACCTCTGCCACGAGACGAGATGATCCCCTTCAAGGACGAGGGCGATCCT
CAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCGAAGAGGAAGGCGATTTAGCTGACATCAAGTCTTCCTTG
GTGAACGAGTCTGAAATCATCCCGCCAGCAACGGACAGAGGTGCCAGACAAGCACAAACCTCTCAGGAGCCC
TACCACGACAAGGCCAGAGAACCCCCGATGACGGAAAGCATCCAGATGGAGGCCCTCTACAACAAGGGACCCCTCC
TACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCT
CCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCTCTACCCCCCTC
ATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCATCAGATGTCAACTCCAAACAA
GGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGCTCTCCGGGTGGTGTGGACAGATC
ACCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTTCAGGCAACCTACCCATCCTCA
CTGTCACTGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCGCCGTCTCTGGTCCCCACACAACCTGGC
ATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATGCACGTG
AAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAGAAGCCTCTGAATGCTTTTATG
TTATACATGAAAGAAATGAGAGCGAATGTCTGTTGCTGAGTGTACTCTAAAAGAAAGTCAGCTATCAACCAGATT
CTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAATTAGCACGGAAGAAAGACAG
CTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAAAAGAGGAAGAGAGAGAAA
CTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGAACATGGTGGAAAACGAAGCT
CATTCCCAACGTGCAAAGCCAAGGCAGCGACCCAGGACCTCTTCTGGAGATGGAAGCTTGTGAAAACCCAGAC
TGTCTCCACGGCCTGCCAGTCGACGCCAAAGGAACACTGACATCAATTTTACCCTGAGGTCACTGCTAGAGACG
CTGATCCATAAAGACAATCACTGCCAACCCCTCTTTCGTCTACTGCAAGAGCCAAGTTCCAAATAAAGCATAAA
AAGGTTTTTTTAAAGGAAATGTAAAAGCACATGAGAATGCTAGCAGGCTGTGGGGCAGCTGAGCAGCTTTTCTCC
CCCCATATCTGCGTGCATTTCCAGAGCATCTTGATCCAAACCTGTAACCTTTCCGCAAGGACGGTAACCTGGC
TGCATTTGCCTGTCATGCGCAACTGGAGCCAGCAACCAGCTATCCATCAGCACCACAGTGGAGGAGTTCATGGAA
GAGTTCCCTCTTTGTTTCTGCTTCATTTTCTTTCTTTTCTTTTCTCTTAAAGCTTTTATTTAACAGTGCAAAAG
GATCGTTTTTTTTGCTTTTTTAACTTGAATTTTTTAAATTTACACTTTTTAGTTTTAATTTCTTGTATATTT
TGCTAGCTATGAGCTTTTAAATAAAATTGAAAGTTCTGGAAAAGTTTGAATAATGACATAAAAAGAAGCCTTCT
TTTTCTGAGACAGCTTGTCTGGTAAGTGGCTTCTCTGTGAATTGCCTGTAACACATAGTGGCTTCTCCGCCCTTG
TAAGGTGTTTCAGTAGAGCTAAATAAATGTAATAGCCAAACCCACTCTGTTGGTAGCAATTGGCAGCCCTATTTC
AGTTTTATTTTTCTTCTGTTTTCTTTCTTTTTTAAACAGTAAACCTTAACAGATGCGTTCAGCAGACTGG
TTTGCAGTGAAATTTTCATTTCTTTCTTTATACCCCTTGTGTGAAAAGCCAGCACTTGAATTGTTATTACTT
TAAATGTTCTGTATTTGTATCTGTTTTATTAGCCAATTAGTGGGATTTTATGCCAGTTGTTAAATGAGCATTG
ATGTACCCATTTTTTAAAAAGCAAGCACAGCCTTGCCCAAAACGTGCATCCTAACGTTTGTCAATCCAGTTTG
AGTTAATGTGCTGAGCATTTTTTTAAAGAAGCTTGTAAATAAACATTTTTTAAAAATGTCATTTAAAAAAA
AAAAAAA

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FIGURE 1358

MPQLSGGGGGGGDPCLCATDEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGHEVARQ
AQTSQEPYHDKAREHPDDGKHPDGGLYNKGPSYSSYSYIMPMNMNDPYMSNGSLSPPIPRTSNKVPVQPSHA
VHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPDIPTFYPLSPGGVGQITPPLGWQGPVYPITGGF
RQYPSSLSVDTSMRFSHMHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLMHVKPQHEQRKEQEPKRPHIK
KPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKK
KKRKREKLQESASGTGPRMTAAYI

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FIGURE 1359

GTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGGTGTACGCGGTGGAGGCCAGTG
AGATGGCACAGCACACGGGGCAGCTGGTCCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACCAGCAGAAGG
TGGAGGATGTGGTGCTGCCCGAGAAGGTGGACGTGCTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTGAGT
TCATGATCGAGTCCATCCTGTATGCCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCCACCATGGCTG
CGTTGCACCTTGTGCCCTGCAGTGTGATAAGGATTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGT
TCAACCTCAGCGCTCTGAAGTAAGTGTCCACAGCTGGGACTGGCACCGTCTTGTGGGGCCTCCTGGTCCACAGTC
TGCAGGTGGGGCCAAGGCCCTGGGAGATCCCATACGACGGTTGGATAAATGAGGGTACCTGTGCACCCAGATAGGA
CAATCTGTTGTAGCATTGGAGTAATTAAAGCAGTATGGTGCTATAACAAGACAGATGGGCAGAGCAGGGTAGAAT
GCAAGGAACAAAAATTTTCGTATGTGAAAAAGGTGGCATTACGATTAGGAGGGAGTGAGGGCCAAGTCAGCAAAT
TATTCTGGAGCAGTTGATTAGCCCTTGTTCTCTCACGCCATACGTGAAAACTTAATTCTGCATGGAATCAGCGTC
AGCGACAGACATCCATGGGGGCCTGTGTGCACCATCTTAGGTGGAGAAATGAGCAGCAACAATGGATGGAATGGA
CCCTGGGCTAGATAGAATCTGGCAGTCTATGTGGCAGAAATCAGCAAAAACACGATTGTAAAAGCAAACAAGTAA
TTAGAGAAATCACGTGCTGTCAAGGTCTTGGAATCAATTAGAAAGAGATGACTAGCCAGATGGAATTGCAGCCCAA
TCATGTGAACAGGCAAACCGCAAAAAATAAATAAAATTACCAATAAATACATGAAAAATTATAATGTTGTTAGTA
GTTAAAAATGCGAATTAATAACATGCTGTTTTCCCTACCAGACAAGCAAAGAGTAAATTAAAAATAGTAGCCAGG
CTTGCCCTGGCAGTGGCAGGGAGGTGTGGCTGCCAGGGCCTTAGAGGTTGGCATCAGGCTGCCCACCCAGTCACT
GCCAGAGCCTCCACCTGAGTGTTCCCTCCCGGCACTGGAAGCCAGTGGCCGTCCAGAGGAACGTGATTGAATTGC
TGTATATCCATCTGGTGGAGCACTGCTGTGTGTCTGTGTTAAAAAGAAACCATAGGTTTTTAGGGATATGTAATGA
TATTTAGAAAGGGTTTAAAGAGACAGTAAAGCTTGGCAGAATAAACCGTGTATACAGAAATGGATGTTTGCTTGCAT
AAATAAATTTATATAAATATGTCTGGGGGATAAAAAATAAGTATATCACAATGCTAAGACAGGCATATGGGGAATT
TAAGCTTTTCTTTATACTTGTCCATAGTTTCCAATTTTTAAATTTGTAATTTTTTATCAGAAAAATAAATGTGTA
AATATAGTGAATCTTTATTAAAAACATTCACTTTTATTTGCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1360

GGCACGAGGATTTCCCTCATCGTCAAGCTTTGTTCCCTCGTGGGGGCTAGAAATCTCTTTCCAGTTCCAGATTGTGA
AGGGTTCCCTGAGTAAGCAGCGTGTCTCCATCCCCCTCTCTAGGGGCTCTTGGATGGACCTTGCACTCTAGAAGGG
ACAATGGACTTCTGGCTTTGGCCACTTTACTTCCTGCCAGTATCGGGGGCCCTGAGGATCCTCCCAGAAGTAAAG
GTAGAGGGGGAGCTGGGCGGATCAGTTACCATCAAGTGCCCACTTCCTGAAATGCATGTGAGGATATATCTGTGC
CGGGAGATGGCTGGATCTGGAACATGTGGTACCGTGGTATCCACCACCAACTTCATCAAGGCAGAATACAAGGGC
CGAGTTACTCTGAAGCAATACCCACGCAAGAATCTGTTCTAGTGGAGGTAACACAGCTGACAGAAAGTGACAGC
GGAGTCTATGCCTGCGGAGCGGGCATGAACACAGACCGGGGAAAGACCCAGAAAGTCACCCCTGAATGTCCACAGT
GAATACGAGCCATCATGGGAAGAGCAGCCAATGCCTGAGACTCCAAAATGGTTTCATCTGCCCTATTTGTTCCAG
ATGCCTGCATATGCCAGTTCTTCCAAATTCGTAACCAGAGTTACCACACCAGCTCAAAGGGGCAAGGTCCCTCCA
GTTACCACCTCCTCCCCACCACCCAAATCACCCACCGCCCTCGAGTGTCCAGAGCATCTTCAGTAGCAGGTGAC
AAGCCCCGAACCTTCTGCCATCCACTACAGCCTCAAAAATCTCAGCTCTGGAGGGGCTGCTCAAGCCCCAGACG
CCCAGCTACAACCACACACCAGGCTGCACAGGCAGAGAGCACTGGACTATGGCTCACAGTCTGGGAGGGAAGGC
CAAGGATTTACATCCTGATCCCGACCATCCTGGGCCCTTTTCTGCTGGCACTTCTGGGGCTGGTGGTGAAGG
GCCGTTGAAAGGAGGAAAGCCCTCTCCAGGCGGGCCCGCCGACTGGCCGTGAGGATGCGCGCCCTGGAGAGCTCC
CAGAGGCCCCGCGGGTCGCGCGACCGCGCTCCCAAAACAACATCTACAGCGCCTGCCCCGCGCGCGCTCGTGGA
GCGGACGCTGCAGGCACAGGGGAGGCCCCGTTCCCGCCCCGGAGCGCCGTTGCCCCCGCCCCGCTGCAGGTG
TCTGAATCTCCCTGGCTCCATGCCCATCTCTGAAGACCAGCTGTGAATACGTGAGCCTCTACCACAGCCTGCC
GCCATGATGGAGGACAGTGATTAGATGACTACATCAATGTTCTGCTGCTGCAACTCCCCAGCTATCCCCAACC
CCAGGCTCGGACTGTGGTGCCAAGGAGTCTCATCTATCTGCTGATGTCCAATACCTGCTTCATGTGTTCTCAGAG
CCCTCATCACTTCCCATGCCCATCTCGACTCCCATCCCCATCTATCTGTGCCCTGAGCATGGCTCTGCCCCCAG
GTCGTCTTGACACCTTGGCAGCCCCCTGTAGTTGACAGGTAAGCTGTAGGCATGTAGAGCAATTGTCCCAATGC
CACTTGCTTCTCTTTCCAAGCCGTCGAACAGACTGTGGGATTTGCAGAGTGTTCCTTCATGTCTTTGACCACAGG
GTTGTTGCTGCCCAGGCTCTAGATCACATGGCATCAGGCTGGGGCAGAGGCATAGCTATTGTCTCGGGCATCCTT
CCCAGGGTTGGGTCTTACACAAATAGAAGGCTCTTGCTCTGAGTTATGTGACATGCCTCAGCCCCATGGACTAAG
CAGGGGTCTGGTATAAAAACTCCTGGAACGCCTTTGCCCTGATCCAAATGTTAGCACTTGCTAGTGAACGTC
TACTTATCTCAAGTTCTATGCTAAAGGCAATTTATCTTGATGTGATGATAAACCAAACTTATTAGCAAGATATGC
ATATATATCAAAAAAAAAAAAAAAAAA

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FIGURE 1361

MDFWLWPLYFLPVSGALRILPEVKVEGELGGSVTIKCPLPEMHVRIYLCREMAGSGTCGTVVSTTNFIKAEYKGR
VTLKQYPRKNLFLVEVTQLTESDSGVYACGAGMNTDRGKTQKVTLNVHSEYEPSWEEQPMPEPKWFHLPYLFQM
PAYASSSKFVTRVITPAQRGKVPPVHHSSPTTQITHRPRVSRASSVAGDKPRTFLPSTTASKISALEGLLKPQTP
SYNHHTRLHRQRALDYGSQSGREGQGFIHILPTILGLFLLALLGLVVKRAVERRKALSRRARRLAVRMRALESSQ
RPRGSPRPRSQNNIYSACPRRARGADAAGTGEAPVPGPGAPLPPAPLQVSESPWLHAPSLKTSCEYVSPLYHQPAA
MMEDSDSDDYINVPA

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FIGURE 1362

CGGACGCGTGGGGAGAGGCTGTTTACCAGAACAGCATAACAAGGGCAGGTCTGACTGCAAGGCTGGGACTGGGAG
GCAGAGCCCGCCCAAGGGGGCCTCGGTTAAACACTGGTCGTTCAATCACCTGCAAGACGAAGGAGGCAAGGATG

CTGTTGGCCTGGGTACAAGCATTCTCGTCAGCAACATGCTCCTAGCAGAAGCCTATGGATCTGGAGGCTGTTTC
TGGGACAACGGCCACCTGTACCGGGAGGACCAGACCTCCCCCGCGCCGGGCTCCGCTGCCTCAACTGGCTGGAC
CGCGAGAGCGGGCTGGCCTCGGCCCCGTGTCGGGGGCCGCAATCACAGTTACTGCCGAAACCCGGACGAGGAC
CCGCGCGGGCCCTGGTGCTACGTACGTAGTGGCGAGGCCGGCGTCCCTGAGAAACGGCCTTGCGAGGACCTGCGCTGT
CCAGAGACCACCTCCCAGGCCCTGCCAGCCTTCACGACAGAAATCCAGGAAGCGTCTGAAGGGCCAGGTGCAGAT
GAGGTGCAGGTGTTTCGCTCCTGCCAACGCCCTGCCCGCTCGGAGTGAGGCGGCAGCTGTGCAGCCAGTGATTGGG
ATCAGCCAGCGGGTGCGGATGAACTCCAAGGAGAAAAAGGACCTGGGAACTCTGGGCTACGTGCTGGGCATTACC
ATGATGGTGATCATTCATGCCATCGGAGCTGGCATCATCTTGGGCTACTCCTACAAGAGGGGGAAGGATTTGAAA
GAACAGCATGATCAGAAAGTATGTGAGAGGGAGATGCAGCGAATCACTCTGCCCTTGTCTGCCTTCACCAACCCC
ACCTGTGAGATTGTGGATGAGAAGACTGTCTGTTGCCACACCAGCCAGACTCCAGTTGACCCTCAGGAGGGCAGC
ACCCCCCTATGGGCCAGGCCGGGACTCCTGGGGCTGAGCCCCCAGTGGGCAGGAGCCCATGCAGACACTGG
TGCAGGACAGCCCCACCCTCCTACAGCTAGGAGGACTACCACCTTGTGTTCTGGTTAAAAACCTACCCTCCCC
GCTTTTTTGGCGAATCCTAGTAAGAGTGACAGAAGCAGGTGGCCCTGTGGGCTGAGGGTAAGGCTGGGTAGGGTC
CTAACAGTGCTCCTTGTCCATCCCTTGGAGCAGATTTGTCTGTGGATGGAGACAGTGGCAGCTCCACAGTGAT
GCTGTCTGTAAGGGCTTCCAAACATTGCCTGCACCCTGGAAGTGAACAGGGATAGACGGGGAGCTCCCCCAGG
CTCCTCTGTGCTTTACTAAGATGGCCTCAGTCTCCACTGTGGGCTTGAGTGGCATACTGTATTTCATGGTTAA
GGTAAAGCAGGTCAAGGGATGGCATTGAAAAAATATATTTAGTTTTTAAAAATATTTGGGATGGAAGTCCCTACTG
ACCTCTGAGAACTGGAACGAGTTTGTACAGAAGTCAGAACTTTGGGTGGGAATGAGATCTAGGTTGTGGCTGC
TGGTATGCTTCAGCTTGCTGGCAATGATGTGCCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCCTG
TTTCATAAGGAAAGGAAGAATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGCCCTTG
GCCACAGGAGCAGAGGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGATAGTGACCTGTCTTCATTTTGC
ACAGGTAAGAGAGTAGTTAGCTAACCTATGGGAATTATACTGTGGGGCTTGAGAGCTGCTTCTAAGAGGCTAAC
CTGGAAACTAAGCTCAGAGGCAAGGTAATAAAGCACTTCAGGGCTTGCTCCCCAAGTGGGCCTGATTTAGCAGGT
GGTCCTGCGGGCGTCCAGGTACAGCACCTTCCTGTAGGGCACTGGGGCTAGGGTCACAGCCCTAACTCATAAAGC
AATCAAAGAACCATTAGAAAGGGCTCATTAAAGCCTTTTGGACACAGGACCCAGAGAGGAAAAAGTGACTTGCCC
AAGGTCGTAAGCAAGCTACTGGCATGGCAAGAGCCCAGCTTCCTGACGGAGCGCAACATTTCTCCACTGCAGTGT
GCTAGCAGCTCAGCAGGGCCTCTAACCTGTGATGTCACTCAAGAGGCCTTGGCAGCTCCTAGCCATAGAGCTT
CCTTTCCAGAACCCTTCCACTGCCCAATGTGGAGACAGGGTTAGTGGGGCTTCTATGGAGCCATCTGCTTTGG
GGACCTAGACCTCAGGTGGTCTCTTGGTGTAGTGATGCTGGAGAAGAGAATATTACTGGTTTCTACTTTTCTAT
AAAGGCATTTCTCTATATACATGTTTTATATACCTCATTCTGACACCTGCATATAGTGTTGGGAAATTGCTCTGCA
TTTGACTTAATTAATAAAAAAAAAAAAAA

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FIGURE 1363

MLLAWVQAFVSNMLLAEAYGSGGCFWDNGHLYREDQTSAPGLRCLNWLDQSGLASAPVSGAGNHSYCRNPDE
DPRGPWCYVSGEAGVPEKRPCEDLRCPETTSQALPAFTTEIQEASEGPGADEVQVFAPANALPARSEAAAVQPVI
GISQVRMNSKEKKDLGTLGYVLGITMMVIIIAIGAGIILGYSYKRGKDLKEQHDQKVCEREMQRITLPLSAFTN
PTCEIVDEKTVVHTSQTPVDPQEGSTPLMGQAGTPGA

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FIGURE 1364

AAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTTCTGATAGTGATATATGGCCATTTTAG
TGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAAAGTCAAGCAGTAGAGAAAATAAGACAAGCTT
TCAAGAAATTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGCGATTTTTTAAAAA
TAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAGTATGACAAATATGGAGAAAAGGGACTTG
AGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACATTTATCGTTATGATTTTGGTATTTATGATGATGATCCTG
AAATCATAACATTGGAAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTGTAAATTTTTACT
CCCCAGGCTGTTCACTGCCATGATTAGCTCCACATGGAGAGACTTTGCTAAAGAAGTGGATGGGTACTTC
GAATTGGAGCTGTTAACTGTGGTATGATAGAATGCTTTGCCGAATGAAAGGAGTCAACAGCTATCCCAGCCTCT
TCATTTTTCGGCTGGAATGGCCCCAGTGAAATATCATGGAGACAGATCAAAGGAGAGTTTGTGAGTTTTGCAA
TGCAGCATGTTAGAAGTACAGTGACAGAACTTTGGACAGGAAATTTTGTCAACTCCATACAACTGCTTTTGCTG
CTGGTATTGGCTGGCTGATCACTTTTTGTCAAAGGAGGAGATTGTTGACTTCACAGACACGACTCAGGCTTA
GTGGCATGTTGGATGGTCTTGTTAATGTAGGATGGAGTGTGCCACCCAGGATAACCTTTGTAAAAGCTTAG
ATATTACAACAAGTACTACTGCTTATTTTCTCTGGAGCCACTTTAAATAACAAAGAGAAAAACAGTATTTTGT
TTCTCAACTCATTGGATGCTAAAGAAATATATTTGGAAGTAATACATAATCTTCCAGATTTTGAAGTACTTTCGG
CAAACACACTAGAGGATCGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCAATTTGGAAAAATGAAATTCAA
ATGATCCTGAGCTGAAAAACTAAAACTCTACTTAAAAATGATCATATTCAAGTTGGCAGGTTTCGACTGTTCTT
CTGCCACAGACATCTGTAGTAATCTGTATGTTTTTTCAGCCGTCTCTAGCAGTATTAAAGGACAAGGAACCAAAG
AATATGAAATTCATCATGGAAGAAGATTCTATATGATATACCTTGCTCTGCCAAAGAAAGTGTGAATTCATG
TTACCACGCTTGGACCTCAAATTTTTCTGCAATGACAAAGAACCATGGCTTGTGATTTCTTTGCCCCCTGGT
GTCCACCATGTGAGCTTTTACTACCAGAGTTACGAAGAGCATCAAATCTTCTTTATGGTCAGCTTAAGTTTGGTA
CACTAGATTGTACAGTTTATGAGGGACTCTGTAAACATGTATAACATTCAAGGCTTATCCAACAACAGTGGTATTCA
ACCAGTCCAACATTTCATGAGTATGAAGGACATCACTCTGCTGAACAAATCTTGGAGTTTCATAGAGGATCTTATGA
ATCCTTCAGTGGTCTCCCTTACACCCACCACCTTCAACGAAGTATTACACAAAGAAAAACAACGAAGTCTGGA
TGTTTGAATTTCTATTCTCCGTGGTGTCTATCCTTGCCAAGTCTTAATGCCAGAATGGAAGAATGGCCCGGACAT
TAACTGGACTGATCAACGTGGGCAGTATAGATTGCCAACAGTATCATTCTTTTGTGCCAGGAAAACGTTCAA
GATACCCTGAGATAAGATTTTTTCCCCGAAATCAAATAAGCTTATCATTATCACAGTTACAATGGTTGGAATA
GGGATGCTTATTCCCTGAGAATCTGGGGTCTAGGATTTTACCTCAAGTATCCACAGATCTAACACCTCAGACTT
TCAGTGAAAAAGTTCTACAAGGAAAAATCATTGGGTGATTGATTTCTATGCTCCTTGGTGTGGACCTTGCCAGA
ATTTTGCTCCAGAATTTGAGCTCTTGGCTAGGATGATTAAAGGAAAAGTGAAAGCTGGAAAAGTAGACTGTCAGG
CTTATGCTCAGACATGCCAGAAAGCTGGGATCAGGGCTATCCAAGTGTAAATTTTATTTCTACGAAAGAGCAA
AGAGAAATTTTCAAGAAGAGCAGATAAATACCAGAGATGCAAAGCAATCGCTGCCTTAATAAGTGAAAAATTGG
AAACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGAACCTTGCATAATGTTGAAGATGAAGAAAAAGTTTAAAG
AAATCTGACAGATGACATCAGAAGACACCTATTTAGAATGTTACATTTATGATGGGAATGAATGAACATTATCT
TAGACTTGAGTTGTACTGCCAGAATTATCTACAGCACTGGTGTAAGAAGGGTCTGCAACATTTTTCTGTAAA
GGGCCGTTTATAAATATTTTAGACTTTGCAGGCTATAATATATGGTTTACACATGAGAAC

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FIGURE 1365

MAILVGTDQDFYSLGVSKTASSREIRQAFKKLALKLHPDKNPNPNAHGDFLKINRAYEVLKDEDLRKKYDKYG
EKGLEDNQGQYESWNYRYDFGIYDDDEIITLERREFDAAVNSGELWVFVNFYSPGCSHCHDLAPTWRDFAKEV
DGLLRIGAVNCGDDRMLCRMKGVNSYPSLFIFRSGMAPVKYHGDRSKESLVSFAMQHVRSTVTELWTGNFVNSIQ
TAFAGIGWLITFCCKGGCLTSQTRLRLSGMLDGLVNVGWMDCATQDNLCKSLDITTSTAYFPPGATLNNKEK
NSILFLNSLDAKEIYLEVIHNLPDFELLSANTLEDRLAHRWLLFFHFGKNENSNDPELKKLKTLLKNDHIQVGR
FDCSSAPDICSNLVVFQPSLAVFKGQGTKEYEIHGKILYDILASAKESVNSHVTTLGPQNFPANDKEPWLVD
FAPWCPPCRALLPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVFNQSNIEYEGHSAEQILEFI
EDLMNPSVSVSLTPTTFNELVTQRKHNEVWMVDFYSPWCHPCQVLMPEWKRMARTLTGLINVGSIDCQYHSFCAQ
ENVQRYPEIRFFPPKSNKAYHYHSYNGWNRDAYSLRIWGLGFLPQVSTDLTPTQTFSEKVLQGNHWVIDFYAPWC
GPCQNFAPFELLARMIKGVKAGKVDCQAYAQTCQKAGIRAYPTVKFYFYERAKRNFQEEQINTRDAKAI AALI
SEKLETLRNQGRNKDEL

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FIGURE 1366

CTGAATTACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAAATGCTCTGTACAGCCAACGGTTTCCCTT
GGGGGCTTTGAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAG
CACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCT
GGAAAGCGGTCTGCCCCCTGGAGGTGGTAGCAAGTTCCACAGAAAAAAGTAAACTTGCTGCTGATGAAGATGAT
GACGATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAA
GCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCA
AAACCATCATCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAACACCAAAA
GGACCTAGTTCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAAGTATAGAAAAAGCGCATTGAACAGTCCTGGGC
ACTACATGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAGTCCATACTGAGTGTCTC
AACAATCCAGACTGAAGTCTTCTATTTTAATCTCAATCCCTTTTTCTGATTGCCACCCATGCCTCTTCAGGCTG
GAAACAATCTCTTGGTTCCCTAAAGCACTTTCTTCTGACTGCTGTGATTTCAGTGAACCTTGCCCTTTGCTTTCTA
TTACTTGTGCATTTGCCTCACCTGACAATGTTTTAATCGCCTTTGTATCTCCTTAGCTGCTCAATAAATATTG
AATGCATCAAAAAAAAAAAAAAAAAA

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FIGURE 1367

MSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKK
VKLAADEDDEDDDEDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQESFKK
QKTPKTPKGPSSVEDIKAKMQASIEKAH

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FIGURE 1368

AAGCCGTGCGCTCCCGGGCTGCGAGGTCTGGCTAGGCTACGGGCCACGCGCGCGCCGCTGCCGCCGCCACTGT
CCTCTTCGGAGGCGCGGGCCCGACGGAACCATGTTTGTGGCTCGCAGCATCGCGCGGACCACAAGGATCTCAT
CCACGATGTCTCTTTTCGACTTCCACGGCGCGCGGATGGCAACCTGCTCCAGCGATCAGAGCGTTAAGGTCTGGGA
TAAAAGTGAAAGTGGTGATTGGCAATTGTACAGCTAGCTGGAAGACACATAGTGGATCTGTATGGCGTGTGACATG
GGCCCATCTGAATTTGGGCAAGTTTTGGCTTCTGTCTTTTGACCGAACAGCTGCTGTATGGGAAGAAATAGT
AGGAGAATCAAATGATAAACTGCGAGGACAGAGCCACTGGGTAAAAGGACAACCTCTGGTGGATAGCAGAACATC
TGTTACTGATGTGAAGTTTGGCTCCCAAGCACATGGGTCTTATGTTAGCAACCTGTTCCGCAGATGGTATAGTAAG
AATCTATGAGGCACCAGATGTTATGAATCTCAGCCAGTGGTCTTTGCAGCATGAGATCTCAIGTAAGCTAAGCTG
TAGTTGCATTTCTTGGAAACCTTCAAGCTCTCGTGCTCATTCCCCCATGATCGCCGTAGGAAGTGATGACAGTAG
CCCCAACGCAATGGCCAAGTTTCAGATTTTTGAATATAATGAAAACACCAGGAAATATGCAAAAGCTGAAACTCT
TATGACAGTCACTGATCCTGTTTCATGATATTGCATTGCTCCAAATTTGGGAAGATCTTTCCATATTCTAGCAAT
AGCGACCAAGATGTGAGAAATTTTACATTAAGCCTGTGAGGAAAGAACTGACTTCCTCTGGTGGGCCAACAAA
GTTTGAAATCCATATAGTGGCTCAGTTCGATAATCATAATTCTCAGGTCTGGCGAGTGAGTTGGAATATAACAGG
AACGGTGTAGCATCTTCAGGAGATGATGGGTGTGTAAGATTGTGGAAGCTAATTATATGGACAATTGGAAGTG
TACTGGTATTTTGAAAGGTAATGGGAGCCCACTCAATGGGAGTTCTCAGCAGGGAACCTCAAATCCTTCCCTAGG
TTCAAATATTTCCAAGTCTTCAGAATTCATTAATGGATCTTCTGCTGGCAGAAAGCACAGCTGAGACAAGCTAAC
TGGAGTAACCTTGGCTGTTTTGCTGCTTGTGCTGCACACTGGAATGGAAGCGAGCTCCCTTTTCCCTTCCCC
AGCGCCGTTTGACCTCTCCCAAGGATACACCAGCAGCCTGCTTACTACTAAACGCAATCCAAAAGGCCTTTAAAA
ATACAGTGTATATTTTTTGTACTAGTCAGTTTATTGACACTATTTGAACTTTTGAAATATAAACGGAGAGGCTT
TCTGTTGAGACATTGTACCAAACAATTTTTGAAATGTTCCCTGAACTAATTTGGGTTTAAAGATTAAAGGG
TTGTTACCATTCTTATCTGAGTAGTTGGGAGGAGGGGAATACCCTTTAGTTCATTGGAATAATAGACATATT
TCTTTTGCTTTCTTAAACAGCTTAAATGATGAATTTTATAATTTAATTTGAAGATTGAATAAATATTTTTT
ATAAAGATTGTTTTGAGTGCTGATTTGTTTACTTTTTGTAGATTGCTTTATCCATGATATTCAGTACAACTCTG
TCATTTCTTTGTAATATTTAAAAATATTAGTAAAGGAGTGAATTAATAAAGTAGTAATAGTAAATGAAAGGAA
CTTGACTGTACAGTTTGTAGCCCAGGTTAAGGCATTGGGTATTGTTTCATTTAACCAATTTGGGGACTAAGATG
GGAAACACTTTTTTTATTAAGTTTTTAATTCATAGTCACTAAAGAGATAAATGTTTCTTATATACATTTGTGTAT
TTTTATGGTGTATTTATTCATGGCTTAGCTTCCCTCAAATCAAATTTGGACACACACTATTAAGAGAAGCCA
TTAAATTTTACTAAAATGTGCATGTAAATTAATTGTCAGCATTCCATGCTCAAGATTTTCTTAATTTAGTTC
GCTGTTTAAATTAATTCATGTCTGTAAAGTTCTGACCTTGATAACAAAGCTATAAATATTTAAGTTTGCTAATA
TGCGTAAGTATTATCGTAAGTTACAAGATGGAAGAAGATAACAGTAGGGCACAGTCATTCTGTGAATCCTTTT
ACTTATCAAATTTGGTAGCTATTCTAAGGCTTTTGCAGAAAAATAAGTGTCAATGTTTGTAGTTCTTCAAAG
CATGTTGCAGTAGCCAGCCATACTATGTGATTCCCAGTATCATGTACGCACTAAAAAATGTGTGCTTGCTGC
TGCTGTGAGTGAACCATGCTTAAGATAAAAACTTAACTAGATCTGTAAATGTACAGAATAGCATCAGATGTTT
CTGAGAGATTAGGAAAATGTTTTGAATTTATAAAATTAATGTTTTCTTTGTAACATTTATATATATTTTTTAAC
ATTTTAAGTTTAACAGATTGTATTCCTTTCAAGTTTCTATACTTGCTTAAGCAATCTTGATTGAGTAAGGCTCT
TGATTTGTGCTATTATGTTCTGTAGTTTTGGCATGAATATACTAAAGCTTTTTTTTTTTTTTTAGCATGTGTT
TTCTCCTCTTTGGTTCTCTTTGTATTTACTACTTTTCTCTTTTCTTTGTGTTTTTTTTTCTGTTTTTGTGTTT
TTTGGTGTGTTTCTGCTTCATTGTTTCAGGTATTTCTTTACCCCTCTGGATTCCCCACGGGCTGGATCGAG
ATGGTCCAGTTATGCCCAGCTCCTTCTCCTCCTCCTCCTCCTGCTGGTAGAGCACTCTTGCGATGCTGACACTGC
CAACCTCCAGTATCCTCACCTCGCAGACGATATCTCTCTCGGCTCTTAATCCCTTACCTGAGAATGAAGGGAT
TTAAACACTGATTTAACATTGAAAGGCCTTATCAAGTGCTTGTAATGCTTTCAATTTCTGGCTGCTTTTTGTT
TTTCATTTTCTTTTCAAGATTTTCTAAGTTAGGGTCTGCTTGCATGTATTACAACAGAATACAGTGTGTTGG
AACCTAAATCTGTTTGTGCTGTGCATCAAAGGAACATTTGCTTCACTGGGTGATAACCTTTGATGAAATGAGAT
ATGTCCAAGTAACGTTAACTGTGAAGTTACACACAGTAGCTGACTTCAAAGTGCTGTTCTGTAATTTTATTT
TAACTGTTACCATAGTCTTAAGTTGTTTATGCTTTATCAGACTGGCTAATGTGAAAGCATAATATTATGAAGTT
TATTCTGCCTTATGAGACCTTAAAAATGGATTTCAATTTACAGGCTAATGTTGTAAGTACTAGTAGTAAAAAT
AAATCATTCTGTGTATAAAGCAGCAAAACCTAAAAA

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FIGURE 1369

MFVARISIAADHKDLIHDVSFDFHGRRMATCSSDQSVKVWDKSESGDWHCTASWKTHSGSVWRVTWAHPEFGQVLA
SCSFDRTAAVWEEIVGESNDKLRGQSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYEAPDVMNL
SQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSDDSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPVHDI
AFAPNLGRSFHILAIATKDVRIFTLPVRKELTSSGGPTKFEIHIVAQFDNHNSQVWRVSWNITGTVLASSGDDG
CVRLWKANYMDNWKCTGILKGNGSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS

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FIGURE 1370

GGCGTCCCTCCGTGAGGTGCGGCCGTTTCGCACCGCCCCCGCCGCAAGAAAGATGGCAGTGGCCTGATCCGGG
CCCGTTGGCGGCGTCACTGACGCTTCGCTCCGGTCTTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCT
GCTTGTCCCCATCCTGCGGCCGTCTGGGGACACAGAGCCCTCCGTGGTGCCCGGGGATTGGATTGGAGCCAGGA
CCTCACTTCCTCCTGCCCCCTGCCCCCTGCCCTCCAGCACCTGGCCACACCCTGCAGCCCGCCCCATGGTCT
GGCCCTGGGTGGCGATGGCGTCCAGGTGGGTCCCCCTCATTGGCCTGGCTCCGTGCTGCCTCTGGCTCCTGGGG
CAGTCCTTCTGATGGACGCGTCTGCACGGCCTGCCAACCACTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGG
AGAATGAGATCCTGCCCCAGACCACCTGAACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCC
ACCAGGAGGTCTTCCTAGGCAAGGACCTGGGTGGCTTTGATGAGGACGCGGAGCCGCGGCGGAGCCGGAGGAAGC
TGATGGTCATCTTTTCCAAGGTGGATGTGAACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCA
TGGAGAAGACGGCCGAGCACTTCCAGGAGGCCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCCTGACG
GGGACGGTCACGTGTCTTGGGACGAGTATAAGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGGTTG
CCGACGCCATCAGGCTCAACGAGGAACCTCAAAGTGGACGAGGAAACACAGGAAGTCTGGAGAACCTGAAGGACC
GCTGGTACCAGGCGGACAGCCCCCTGCAGACCTGCTGCTGACGGAGGAGGAGTTCTGTGCTTCTCCACCCCG
AGCACAGCCGGGAATGCTCAGGTTTATGGTGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGC
TCTCTGTGCCCCGAGTTTCTCTCCCTGCCCCGTGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACT
GGGTGAAAGACAGAAAAAGGAGTTTGGAGAGCTCATTGACTCCAACCACGACGGCATCGTACCGCCGAGGAGC
TGGAGAACGTGCCACACTCCCGCTGCAGCCAATAGGCACCTTAAATAGCCACTTCGTGCGGTGGCCGCGGAGC
TCGGAGGGGGAAAGGCGACGCTGACCTGTGCCCCGCTCGCCCGCAGAGCTACATGGACCCCATGAACGAGTACAA
CGCGCTGAACGAGGCCAAGCAGATGATCGCCGTGCGCGACGAGAACCAGAACCACCTGGAGCCCGAGGAGGT
GCTCAAGTACAGCGAGTTCTTACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGACGAGGAGTTTTGAGC
GCCCCGCGCGCCCCGCGCGCCCCCACGCACCACCGGGGGGGCCTCGCGGGTGACTCCGGCCTCCGTGGCTGT
CCCGGACCCACCTTCTCTGCGCGCCACCACCGGCGGACCGACCGCGGCTTCCCCAGTTGATGAGCGCGCTGT
CCCTCTGCGAGCGCGCACCCCGCGGGGCTTTGGCTGTGACGCGGTGCGGGCGCGGGGCTGGTCTGTGGCCCCGC
GGCGCGCCTCCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCACTCTG
CCGAAGGCGCTGACGGCATCGCGCCGGAACCTCTGGGCCCGGCCCTCCAGGGCCGCGCTCCGTGGGAAAAA
ACAGCTCCTCCATTTCTTGGAACTGAACGATTATTAATAATAGATAAACTTCGCTGGAAATGAGTAGCCAGGA
AGTTACGGGGAGGTCCGGGTCCTTCCCGGGCCTGGCGTGTGGAACCACCCAGGTCCCGCAGCTGCCTCTGA
GAAAATCCAAATATTTTTTGTGACAAGAATCACAACATTTACTTTAAATATAAAAAAAAAAAAAA

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FIGURE 1371

MVWPWVAMASRWGPLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANRENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDDQDGDKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQHHLEPEEVLKYSEFFTGSKLVDYARSVHEEF

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FIGURE 1372

GGCACGAGGGTCCCTGGGCGGACGGCGGTGTCCCGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGG
GCGCGGGACCGGGAGGCGCAGGGACCGGACGGCTCCCGAGTCGCCCACCTGACGCTAGAAGAAGTCTTCACTTCC
CAGGAGAGCCAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCC
CAGCCTTGGGCTGAATGGCAGCACCCACGCCCCCGCTCCGGTGCTGACCCACCTGCTGGTGGCTCTCTTCGGCA
TGGGCTCCTGGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGA
GCCTCCCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCCTCTGGAGGAGGC
TGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGG
CCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTGC
TGGCACTGGCATGCTGTGCCTCGAATGTCACTTTCTGCCCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGT
CATTTCTCTGGGTCAAGGCCTGAGTGGCCTGCTGCCCTGCGTGCTGGCCCTAGTGCAGGGTGTGGGCCGCTCG
AGTGGCCCCAGCCCCCATCAACGGCACCCCTGGCCCCCGCTCGACTTCCTTGAGCGTTTTCCCGCCAGCACCT
TCTTCTGGGCACTGACTGCCCTTCTGGTTCGCTTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTGCCGCCAC
CACCATCTGTACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAG
AGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAGACCCTAAGGCCTATCAGC
TTCTATCAGCCCGCAGTGCCTGCTGGGCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGCTGCCTG
CCGTGCAGAGCTTTTCTGCTTACCCTACGGCGCTTGGCCTACCACCTGGCTGTGGTGTGGGCAGTGTGCCA
ATCCCCCTGGCCTGCTTCCCTGGCCATGGGTGTGCTGTGCAGGTCTTGGCAGGGCTGGGCGGCCTCTCTGCTGG
GCGTGTTCGTGGGGGTACCTGATGGCGCTGGCAGTCTTGGCCCCCTGCCCGCCCCCTGGTGGGCACCTCGGCGG
GGGTGGTTCCTCGTGGTGTGCTGTGCTGGGTGCTGTGCTTGGCGTGTCTCTACGTGAAGGTGGCAGCCAGCTCCC
TGCTGCATGGCGGGGGCCGGCCGCAATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTG
TTGCTATGTTCCCCCGACAGCATCTATCACGTGTTCCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCCT
GAGCCTGGGCAGGTGGGGACCCCGCTCCCCAACACCTGTCTTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTG
CAGCCCAGGAGGCGCCGACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTTCCAGGGT
GGGCAAGGGCAAGGAGCAGGCTTGAGGCCAGGGACCAGTGGGGCTGTAGGGTAAGCCCTGAGCCTGGGACCTA
CATGTGGTTTGCCTAATAAAACATTTGTATTTAAAAA

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FIGURE 1373

MAAPTPARPVLTHLLVALFGMGSWAAVNGIWVELPVVVKELPEGWSLPSYVSVLVALGNLGLLVVTLWRRRLAPGK
DEQVPIRVVQVLGMVGTALLASLWHHVAPVAGQLHSVAFLALAFVLALACCASNVTFLPFLSHLPFRFLRSFFLG
QGLSALLPCVLALVQGVGRLECAPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAAFQGLLLLLPPPSVP
TGELGSGLQVGAPGAEEEEVEESSPLQEPPSQAAGTTPGPDPKAYQLLSARSACLLGLLAATNALTNGVLPVQSF
SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGGLSLLGVFCGGYLMALAVLSPCPPLVGTSAGVVLV
VLSWVLC LGVFSYVKVAASSLLHGGRPALLAAGVAIQVGSLLGAVAMFPPTSIYHVFHSRKDCADPCDS

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FIGURE 1374

GGCACGAGGGTCCGCGGGAGCCGCCGCCGCGCTCCCGTCCCAGCTGCCGCCCCGCGGGCCCCGCCGCGGC
CAGGATGCTGGAGGAAGCGGGCGAGGTGCTGGAGAACATGCTGAAGGCGTCTTGCTGCTCTCGGCTTCATCGT
CTTCCTGCCCGCTGTGCTGCTGCTGGTGGCGCCGCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTCACCGTGTA
CCGCATGCAGCAGTACGACCTGCAGGGCCAGCCCTACGGCACACGGAATGCAGTGCTGAACACGGAGGCGCGCAC
GATGGCGGGGAGGTGCTGAGCCGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCCTACGAGCAGTACCAGAA
GGCCCTGCCGAGTCGGCGGGCGCCGTGGTCAATCATCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCTGT
CCGGCAATTCATGGAGATCGAGCCGGAGATGCTGGCCATGGAGACCGCGTCCCCGTGTACTTTGCCGTGGAGGA
CGAGGCCCTGTGTCTATCTACAAGCAGACCCAGGCTGCCTCCGCCTCCCAGGGCTCCGCCTCTGTGCTGAAGT
ACTGCTGCGCACGGCCACTGCCAACGGCTTCCAGATGGTACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTG
GCTGATTGCCAGCGTGGAGGGGGCGGTGACGGGGCTGGGCGGAGAGGACCTTCCACCATCGTCATCGTGGCCCA
CTACGACGCCTTTGGAGTGGCCCCCTGGCTGTGCTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCT
GGAGCTGGCAGCGCTTCTTCCCGGTCTACACCTACAAGCGCACGCACGCCGCTACAACCTCCTGTTCTTTGC
GTCTGGAGGAGGCAAGTTTAACTACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACAAGACTCCAG
CCTGCTTCAGGACAATGTGGCCTTCGTGCTGTGCTGGACACCGTGGGCGGGGCAGCAGCCTGCACCTGCACGT
GTCCAAGCCGCTCGGGAGGGCACCCCTGCAGCACGCCTTCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAGTT
CCCTGAGGTACGGTTCTCCATGGTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCG
CTTCGCCATCCGCCGACTGCCCGCCTTCACGCTGTCCACCTGGAGAGCCACCGTGACGGTCAGCGCAGCAGCAT
CATGGACGTGCGGTCCCGGGTGGATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCG
AGTCATCTACAACCTGACAGAGAAGGGGACACCCCCAGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCA
GGAGCAGCTGGACTCGGTGATGGACTGGCTACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCAC
CTTCCTCAGCACGCTGGAGCACCACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAA
GCGGGACCCAGAGTTTGTCTTCTACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGCTCTT
TGACCTGCTCCTGGCTGTTGGCATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCT
CTACAAGACCGTCCAGAGGCTGCTCGTGAAGGCCAAGACACAGTGACACAGCCACCCCCACAGCCGGAGCCCCCG
CCGCTCCACAGTCCCTGGGGCCGAGCACGAGTGAGTGACACTGCCCCGCCGCGGGCGGCCCTGCAGGGACAGGG
GCCCTCTCCCTCCCCGGCGGTGGTTGGAACACTGAATTACAGAGCTTTTTTCTGTGCTCAAAAAAAAAAAAAA
AAA

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FIGURE 1375

MLKASCLPLGFIVFLPAVLLLVAPPLPAADAAHEFTVYRMOQYDLQGOPYGTRNAVLNTEARTMAAEVLSRRCVL
MRLLDFSIEQYQKALRQSAGAVVILPRMAAVPQDVVRQFMEIEPEMLAMETAVPVYFAVEDEALLSIYKQTQA
ASASQGSASAAEVLLRTATANGFQMTSGVQSKAVSDWLIASVEGRLTGLGGEDLPTIVIVAHYDAFGVAPWLSL
GADSNGSGSVLLELARLFSRLYTYKRTHAAYNLLFFASGGGKFNYQGTKRWLEDNLDHTDSSLLQDNVAFVLCCL
DTVGRGSSLHLHVSKPPREGTLQHAFLRELETVAAHQFPEVRFMSVHKRINLAEDVLAWEHERFAIRRLPAFTLS
HLESHRDGQRSSIMDVRSRVDSTLTNRNTRIIAEALTRVIYNLTEKGTFFDMPVFTEQMIIQQEQQLDSVMDWLTN
QPRAAQLVDKSTFLSTLEHHLSRYLKDVKQHHVKADKRDPEFVFYDQLKQVMNAYRVKPAVFDLLLAVGIAAYL
GMAYVAVQHFSLLYKTVORLLVKAKTQ

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FIGURE 1376

CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCCTGTGGAGTGGTGGGGGCCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTTCGGAAGGGAGGAT
CAGGGATGTTTGGGAGCGGCTGGAACCAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGCTGC
TGCCCCTGCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGAGTTGCGCTGGCTTCCGCGCG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCCGGAAGGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAAGTGGCCAGCAGCGCGCCGCGACA
CCTTTCTCATTACGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGCTAGGCTGGGACTGGGGACCCGACGGCGGCGACAGCGGCGAGGGGAGCGCTGGAGAAGCGGAGC
GGGAGCGCGGGAGCCGAGATGCAGCGGCCGGAAGCGGCGCGAGTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCGCGCCCTCTGTACCTGGAGCAACTGTGGCGCTGCTCTCCCGCTGGCCAGAGTTTCTGT
GGCTCTGGTTTCGGGTGGCCAAGGCCGCGCTGCGCACTGCCTTTGTGCCACCGCCCTGCGCGGGGCCCCCTGC
TGCACTGCCTCCGAGCTGCGGCGCGCGCGCTGGTGTGGCGCCAGAGTTCTGGAGTCCCTGGAGCCGGACC
TGCCCGCCCTGAGAGCATGGGGCTCCACCTGTGGGCTGCAGGCCAGGAACCCACCCTGTGGAATTAGCGATT
TGCTGGCTGAAGTGTCCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCAGAGCATAACAGACA
CGTGCTGTACATCTTACCTCTGGCACCGGGCCTCCCCAAGGCTGCTCGGATCAGTCATCTGAAGATCCTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCCACCAGGAAGATGTGATCTACCTCGCCCTCCCACTCTACCACA
TGTCCGTTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGCTGAAATCCAAGTTCTCGG
CTGGTCAGTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCGAGCAAGGCAGAACGTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCAG
ATACCTGGGAGCGTTTTGTGCGGCGCTTCGGGCCCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TGCCACCATCAACTACACAGGACAGCGGGCGCTGTGGGGCGTGCTTCTGGCTTTACAAGCATATCTTCCCT
TCTCCTTGATTGCTATGATGTCACCACAGGAGAGCCAATTCGGGACCCCCAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGGTAAGCCAGCAGTCCCCATTCTGGGCTATGCTGGCGGGCCAGAGC
TGCCCCAGGGGAAGTTGCTAAAGGATGTCTCCGGCCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGGTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTTCAGGTGGAAGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTCTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCACGTGTCTGAGAACTTGCCACCTTATGCCCCGCCCCGATTCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTCGGATGGCAAATGAGGGCTTCGACCCAGCACCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCCCTCACAAGTGCCTGACGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAGAACTTCCACACCTGAGGCACCTGAGAGAGGAACCTCTGTGGGGTGGGGGCGGTGTCAGGTGTACTGG
GCTGTGAGGGATCTTTCTATACCAGAACTGCGGTCACTATTTTGTAAATAAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAA

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FIGURE 1377

MGVCQRTAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLPLLLLLPLLLLKLHLWPQLRW
LPADLAFAVRALCCKRALRARALAAAAADPEGPEGCSLAWRLAELAQQRAAHTFLIHGSRRF SYSEAERESNRA
ARAFRLALGWDWGPDGGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGP
EFLWLWFLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGVPVGYLSSPQSIIDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFQYIGELCRYLVNQPPSKAERGHKVR LAVGSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGQRGAVGRASWLYKHIFPFSLIRYDVTTGEPIRD PQGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGPELAQ GKLLKDVFRPGDVFFNTGDLLVCDDQGF LRFH DRTGDTFRWKGE
NVATTEVAEVFEALDFLQEVN VYGVTVP GHEGRAGMAALVLRPPHALDLMQLYTHVSENLP PYARPRFLRLQESL
ATTETFKQQKVRMANEGFDPSTLSDPLYVLDQAVGAYLPLTTARYSALLAGNLRI

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FIGURE 1378

AAAGAAAAATGCTCTGCATGGATTGGAGACACAGCAATAACTACTGTTGCCATGGAAGGGTTAACAGTGTAGGAG
CTGGTTTATCAGTCCGCTTTGACATACAGCTAAAGGAAATTTATGTTTGGGGGAAAAAGGCCCTCTGTTCACTTT
AAAATTCAGTGTGGACTTATGCCAAAGGGGGCTGTTTAAAGTTGAAAGAAGCCAAGTTAAGTTTGGCCTCTTGCCT
GGAATCACTTGAATTCIGAAATTTCACTGCGACGGACATGTGCCTTGTACATTTCCATTGCTTAATCCTGAAG
TTTGGTGCAAGTCTCTCTGCACCTATTAAAAAGTGATGTATATACTTCCTTCTATTCTGTTGAGTTGTATAGAA
TTGCTTTTGTATTTAACACTTTGTAATTTTACAATATTTTTAATTTAAATAAATAAACACATTTTTCCCTC
CTGGGAAGTCATGAAAA

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FIGURE 1379

RKMLCMDWRHSNNYCCHGRVNSVGAGLSVRFDIQLKEIYVWGKKALCSL

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FIGURE 1380A

AGCGATCCGAGGCCCGCCCCGCCCCGCCCCGCGCGCGCGCGCGCTTGCCGCGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCACTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGAGCCCCGAGCAGCCGCGGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGAAATTCAGAAGCCAGAGAGGAAGATTCAAGTTAAGGAGAAAGTGCTGTGGACCGCTATCACCTT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTAGCTGACCCCTTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCTATTGTACGCTGTGGCCT
TATAATGCAACTCTTGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAGACCGAGCTCTCTTCAACGG
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTCTTTGTTGCTGGCTTAATTGTCCTACT
TTTGGATGAATCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCATTTTCCATCTGCTGGCCACACGCACAGACAAGTCCGAGCCCTTCGGGAGGCGTTTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATTCTTTGTCTTTCAGTGGTCATCTATTTCCAGGCTTCCGAGTGG
CCTCCAATCAAGTCGCGCCGCTACCGTGGCCAGTACAACACTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCTGCACTGCTGCCCTGGTGTCCAACCTTTATGTCATCTCCCAATGCTCTCAGCTCGCTTCACTGG
CAACTGCTGGTTCAGCTGCTGGGCACCTGGTGGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCACTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCTTCTTCTCCAAACGTGGATTGAGGTCTCAGGTTCTCTGCCAAAGA
TGTTGCAAGCAGCTGAAGGAGCAGCAGATGGTGTATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTAA
CCGGTACATCCCCACAGCCGCGCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCCTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCTCGGAAGGGGAGCTCTCATATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTTATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTAGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC
CAAGTGCTCATGTAACTTTTGTTTTAACTTTTGCACCTTCTCAGTGTGTATGCGGCTGCAGCCGTCTCACCTGT
TTCCCCACAAAGGAATTTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCAATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTTGTTTCCCTTATTTTAAAGTGATTTTTT
AAGGACAGAACTTCTTCCAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTAG
TCCACTTGGGTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCACTGATGTCCGT
TGTCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTCTGCGTCACCACT
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCCGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCCCTTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCTGCAAGACAGGGCCACCGCCACAGCCCGGAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCTATCACAG
TGGCCTTGTCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAACCTGATGCCCTCCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTGTCTGCTACAGAGGGGAGAGGCTCCTTGAACCTGATGCCCTCCTACCCACATGGTTCTC
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGAGGGGGCTGGAAGGCACAGGCTCAGGAGGAGCCCCATAGTC
CCGCTGCAAGCTGTAAACATCGGCTGGGCCCCGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAATGGCATAACTGAGATAAGGTGA

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FIGURE 1380B

ATAAGTGACAAATAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1381

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWVRVILASNRGT
LMELGISPIVITSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLDELLQKGYGLSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRD
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIP IILQSALVSN
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYYLSPPEFSGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

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FIGURE 1382

AGGGGGCGAAGGCGCGGTGGTGAGGAAGATACTTTGGTTAGTGACCACATCGCAGCATGTTGAGTCAAGTTTAC
CGCTGTGGGTTCAGCCCTTCAACCAACATCTTCTGCCCTGGGTCAAGTGTACAACCGTCTTCAGATCTCATTGT
ATCCAGCCTTCAGTCATCAGACATGTTTCGTTCTTGGAGCAACATCCCGTTTATCACTGTACCCCTCAGTCGTACA
CATGGAAAGTCCTTCCGCCACCGCAGTGAGCTGAAGCATGCCAAGAGAATCGTGGTGAAGCTCGGCAGTCCCGTG
GTGACCCGAGGGGATGAATGTGGCCTGGCCCTGGGGCGCTTGGCATCTATTGTTGAGCAGGTATCAGTGCTGCAG
AATCAGGGCAGAGAGATGATGCTGGTGACCAGTGGAGCCGTAGCCTTTGGCAAACAACGCTTGCGCCATGAGATC
CTTCTGTCTCAGAGCGTGCAGGAGCCCTCCACTCGGGGCAGAACAGCTGAAAGAAATGGCAATTCCAGTCTTA
GAGGCAGAGCCTGTGCAGCTGCCGGACAGAGTGGGCTGATGGCCTTGTATGAGGCTATGTTTACCCAGTACAGC
ATCTGTGCTGCCAGATTTTGGTGACCAATTTGGATTTCATGATGAGCAGAAGCGCCGGAACCTCAATGGAACA
CTTCATGAACCTCCTTAGAATGAACATTGTCCCCATTGTCAACACAAATGATGCTGTTGTCCCCCAGCTGAGCCC
AACAGTGACCTGCAGGGGGTAAATGTTATTAGTGTTAAAGATAATGATAGCCTGGCTGCCCGACTGGCTGTGGAA
ATGAAAAGTGTCTCTTGATTGTTCTTTTCAGATGTAGAAGGCCTTTTTCAGAGCCCCCAGGTTTCAGATGATGCA
AAGCTTATTGATATATTTTATCCCGAGATCAGCAGTCTGTGACATTGGAACCAAGTCTAGAGTGGGAATGGGT
GGCATGGAAGCCAAGGTGAAAGCAGCCCTCTGGGCTTTGCAAGGTGGCACTTCTGTGTTATTGCCAATGGAACC
CAGCCAAAGGTGTCTGGGCACGTATCACAGACATTGTGGAGGGGAAGAAAGTTGGTACCTTCTTTTCAGAAGTA
AAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAGAAATGGCGCGATCTGGAGGAAGGATGTTGGCCACCTTGGAA
CCTGAGCAGAGAGCAGAAATTATCCATCATCTGGCTGATCTGTTGACGGACCAGCGTATGAGATCCTGTTAGCC
AACAAAAAGACTTGGAGGAGCAGAGGGGAGACTTGACGCTCCTCTGCTGAAACGTTTAAGCCTCTCCACATCC
AAATTGAACAGCCTGGCCATCGGTCTGCGACAGATCGCAGCCTCCTCCAGGACAGCGTGGGACGTGTTTTCGCG
CGCAGCCGAATCGCCAAAACTTGAACCTGGAACAAGTACTGTCCCAATTGGAGTCTGCTGGTGATCTTTGAA
TCTCGTCTGACTGTCTACCCAGGTGGCAGCTTTGGCTATCGCAAGTGGCAATGGCTTGTACTCAAAGGAGGG
AAGGAGGCTGCACACAGCAACCGGATTCTCCACCTCTGACCCAGGAGGCTCTCTCAATCCATGGAGTCAAGGAG
GCCGTGCAACTGGTGAATACCAGAGAAGAAGTTGAAGATCTTTGCCGCTAGACAAAATGATAGATCTGATCATT
CCACGTGGCTCTTCCAGCTGGTCAGAGACATCCAGAAAGCTGCTAAGGGGATTCCAGTATGGGGCAGACGGAA
GGGATCTGTACATGTATGTGATTCCGAGGCCAGTGTGATAAGGTACACAGGCTAGTCAGAGACTCTAAATGT
GAATATCCAGCTGCCTGTAATGCTTTGGAGACTTTGTTAATCCACCGGATCTGCTCAGGACACCATTATTGAC
CAGATCATTGATATGCTGAGAGTGGAAACAGGTAAATTCATGCAGGCCCAAATTTGGCTCCTATCTGACCTTC
AGCCCCCTCCGAAGTGAAGTCACTCCGAAGTGAATGAGGACCTGGAATTATGCATTGAAGTAGTGGACAACGTT
CAGGATGCCATTGACCACATCCACAAGTATGGCAGTCCACACGGATGTCATCGTCACAGAGGACGAAAACACA
GCGGAGTTCTTCTGTCAGCACGTAGACAGTGCCTGTGTGTTCTGGAATGCCAGCACTCGCTTTTCTGATGGTTAC
CGCTTTGGACTGGGAGCTGAAGTGGGAATCAGTACATCGAGAATCCACGCCCCGGGGACCAGTAGGACTTGAGGGA
CTGCTTACTACTAAGTGGCTGCTGCGAGGGAAGGACCAGTGGTCTCAGATTTCTCAGAGCATGGAAGTTTAAAA
TATCTTCATGAGAACCTCCCTATTCTCAGAGAAACACCAACTGAAAAGAGCCAGGAAAACCCGGGAATTTTCCA
AAAGGTCTTCAGTTAAACTTGCTTATCTCAGGAGAGAGCCCGCTCTTGTCTCCAGTTCCTGGTAGGGTCTGC
CTGTTGGAAGTGTACCTGGATGCTTCTGGGCTCCGTTTGGCAATAGCAATCTTGGCTGATGTGCACAGTCTGGC
TCCAGCTCACCTTTTTTTTTTAAAGTAAGAAAATAGTTGCTACCGATAGGGACTTTGGCAAGTCCAATTATCTT
CTAGGATTGAAAGGTGCATTTTCCCATAAAAAAGGCGAGGAAAACCCATGCTGCTTTGTGTACCTCAGTGAC
TTACAGTCCCCCTTCGCATTTAGTTGGTACTAGAGCCAGTCATCCTTAACAAATCTTTTCGCGTTTTATTTCTTT
CACATGTAGTCATCTTCAAAAAGGAAGATTGGAATTTTAGAAAAGGGGCAACTCTTCTTTTATGATTCTCAT
CAGAAAGTCACAAAATCGATGGAATCATTCCACTGGGAAGATTGACCTTTTGTATTTATTTGTGGGGTAAATT
AATAAGCATTCCAGATGCTTGCAGCTTCTGCATCCAGGAGATGCTGTGTCCCCGTGATGCAGCTGGAACCCAA
GCTGCAGCAGGAGATGCAAGTTTCAGGATGTTCCCACTGAGCTGGAGGAATATCTACAGCAGTGATGCTTGAAA
TTTTTGTATGAATTATTTTGTGTCCTACCTTTTCTCCAAAACAAAATTAGAGGATTATTTTAATACTTTGG
ATTCTTCCCCCTTTTTTGGAGAAATAAGTTTTTTATG

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FIGURE 1383

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKSFAHRSELKHAKRIVV
KLGSAVVTRGDECGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKE
MAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDHFHDEQKRRNLNGTLHELLRMNIVPIVNTNDV
VPPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQOSVTFGTK
SRVGMGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVIDIVEGKKVGTFFSEVKPAGPTVEQQGEMARSGGR
MLATLEPEQRAEIIHHLADLLTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDS
VGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAHSNRILHLLTQEALS
IHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYVDSEASVDKVT
VRDSKCEYPACNALETLLIHRDLLRTPFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCI
EVVDNVQDAIDHIHKYGSSHTDVIVTEDENTAEFFLQHVDSACVFWNASTRFSRGYRFLGAEVGISTSRHARG
PVGLEGLLTTKWLLRGKDHVVSDFSEHGSCLKYLHENLPIQRNTN

GAGAGGCGCCAGGCGGGCGGGCGGGCGGCCAGCTTCTTCTTTCTCGCACAGCGGCCGCCCTGCTCGAGT
CCCGCGTCGCCATGGCCGCGGTTCCTCGAGTTGCTGCAGCAGCAGGAGGAGCCGAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAAATTTG
CCAAGATGAAACAAGAACTGGAAGCTGAGTATCTCGCTGTGTTTAAAGAAGACTGTGCTCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCTGTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAGTGTGGTGAAAAAGTGTGTGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAAGTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAAACTAAGGAAAGTAGAGGGTCGAGTTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAACT
CAAACAAGCTCTGGATAAGGCCCGTTTAAAGAGCAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACCTTTCGGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAACTAATTGAAATGTCTGAAGTGAAGTAAACATGCCAGGAACAATGTCTCCCTTTTGCAGAGCT
GTATTGACTTGTTCAAGAATAACTTGATATGCCTTCACTCAGAAGAAAAGAAATGAATGTGAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTTGTGCACTTTAATACCTCTGGGCAGAAATCCAAATACTGGGTTCTCCCGTAGTTCGTCTTTAGTTACTAA
GAAAGGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTGAGGGAGGTGCCAGTTACAGCAGGTGATTGAGCTACTTGAGGTCGGTAACAGACCTTCCATTCCCTCACT
GAAGGTGGGGTTTTGTGTTTTTTGTTTTGCCCTGTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAAATATCTACAGGTATATATGGAACAAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTGTTTTTTT
ATAAAGCATATAATAAAATAATCGTGCTACT

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FIGURE 1385

MAAVPELLQQQEEDRSKLSVSVDLNVDPQLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGECSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHVFLFYDQDLSVRRKNTKEMFGGFFKSUVKSADEVLF TGVKEVDDFFEQEKNFLINYNNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYML
NIEAAKDLLYRRTKALIDYENS NKALDKARLKS KDVKLAEAHQQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNV SLLQSCIDLFKN

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FIGURE 1386

GCCGCGCTGTGTCTCCGCTGCGTCCGCGAGGCCCGAGTGTGTCAGGGACAAAAGCCTCCGCCTGCTCCGCA
GCGGGGCTCATCTGCGCGCCGCCGCGCTGAGGAGAGTTCGCCGCGCTGCGCGCCGTGAGGATCTGAGAGCC
ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACAAAAGGTCAAGGAAACAAAGTACAAATGGATCTGTACATCAA
AAGGATGGATTAAACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATATGCATATACTGCC
ATGTCAGATTCTTACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCTATTCTTTGGGTGAAGCTGCTTGG
TCTACGGGGGTGACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCTTA
CCAGATGCAATGTTTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCATGGTTTTAATTTCTTT
CCCAGTGGGATTGACTTCTCAGCATGGGAAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGT
AGCAATTATGCTTATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACC
CTCAATAAGGCTCCTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCA
AGCAATGTTCCAAAAGTTGTAGGTTCTGCTGTTGGTAGCGGGTCCATTACTAGTAACATCGTGGCTTCCAATAGT
TTGCCCTCCAGCCACCATTGCTCCTCCAAAACCAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAA
CCTAAACTGAAGACCAAGAAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCGATAAAGCATAACATGGATATT
GGAAGTTGGGATAACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTAGCCCAACC
CAGGGGTCTCCTCAGCCTGTAGGTGAGCAGGCTAACAATAGCCACCAGTGGCTCAGGCATCAGTAGGGCAACAG
ACACAGCCATTGCTCCTCCACTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAAACCCGC
TGGGTGACCACTCGGAACCGTGGCAGTGGGTTCCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAG
GCTGGTTCTGGATCTACTCCTTCAGAACCCACCCAGTGTGGAGAAGCTTCGGTCCATTAATAACTATAACCC
AAAGATTTGACTGGAATCTGAAACATGGCCGGGTTTTATCATTAAAGAGCTACTCTGAGGACGATATTCACCGT
TCCATTAAAGTATAATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCCATGAAC
GGGAAAGGCCCCGTTTACTTACTTTTTCAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCT
GCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCGTTTTGATGTCAGGTGGATT
TTTGTGAAGGACGTTCCCAATAGCCAATGCGACACATTGCGCTAGAGAACAACGAGAATAAACCAGTGACCAAC
TCTAGGGACACTCAGGAAGTGCTCTGGAAGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACC
ACTTCCATTTTTGATGACTTCTCACACTATGAGAAACGCCAAAGAGGAAGAAGAAAGTGT**TAAAA**AGGAACGTCA
AGGTGCTGGGAAATAAAAGGCAGTTCTACACAGACTGCAGCAACGGTTGCATCTGCATATCCTAAGAGGAAAAAA
TGACCTTCAAGAGAATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAGT
ATTGGAATTTACAAAAGACATAGGACTTAAGTGGAAATGAAAAGAAAAGAAAAAGAAAAAACTAAACAAAAAA
TCCCTCTAGGTAGTTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTTGTGATTTTCAGAGCATAATGCTATG
TTTTTTGTCTTTTACTATGTTTTTCGGATTTTTAAGTCCGTAAGTGCATACAGTTTTCTCTAATTTTTTAAACCC
TTTCTCCTCCCATTTGGACATTTGCACTTGGAGAACACTTGAGTTGTGAAGGTTTTGGGCATCCACCCAGAAA
GTGGGAATTTGATTTTATCCTTCCGAAGTGAAGAACATTTTTATGAAGAATTTTTGTCTAGGAGAATATAACAG
TGTTACCCAAGGTTGTGCTTTAAGGGTGGTTCAATTTCTCTGACCTTTTGTACTCAAAGTAAAGTACTAGGAG
TCCTAAGAAATGTTCTGTTCTGTACATTATACTGATTAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGT
GGTAAAAACTCGTTTACAGAAATGCATTTTGAAGAGAAAAATACTGTAAACGTGTCGTGAATGTTTCTTCAGT
TTCTTGTTAGCCAATGAGGAAAGGGCATTGCCTTTCTTTTACCATTAAATCACTTCTCAATAAACGTGAGATCC
TGTTGAGCATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1387

MSASSLLEQRPKGQGNKVQNGSVHQKDGLNDDDFEYLSPQARPNNAYTAMSDSYLPSYSPSIGFSYSLGEAAW
STGGDTAMPYLTSYGQLSNGEPHFLEPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNSSQGQSTQSSGYS
SNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQGMALKLGSTEVASNVPKVVGSVAVGSGSITSNIVASNS
LPPATIAPPKPASWADIASKPAKQQPKLTKNGIAGSSLPPPPPIKHNMDIGTWDNKGPAKAPSQALVQNIQOPT
QGSFPQVGGQANNSPPVAQASVGQQTQPLPPPPQPAQLSVQQQAAQPTRWVAPRNRGSGFGHNGVDGNGVGQSQ
AGSGSTPSEPHVLEKLRSINNYNPKDFDWNLKHGRVFIKSYSEDDIHRSIKYNIWCSIEHGNKRLDAAYRSMN
GKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAGVWSQDKWGRFDVRWIFVKDVPNSQLRHIRLENNENKPVN
SRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQRGRK

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FIGURE 1388

GTGAAGAGAGCGCGCGGCTGACTGAGCTACGGTTCTGGCTGCGTCTAGAGGCATCCGGGGCAGTAAAACCGCTG
CGATCGCGGAGCGCGCGGCCAGGCCGAGAGGCAGGCCGGGCGAGGGGTGTCGGACGCAGGGCGCTGGGCCGGGTTT
CGGCTTCGGCCACAGCTTTTTTCTCAAGGTGCAATGAAGCCTTCCACACTTTCTGTGTGTCCTTCTGGTGTT
TGGGAGTGTCTCTGAAGCCAAGTTTGATGATTTTGGAGATGAGGAGGACATAGTAGAGTATGATGATAATGACTT
CGCTGAATTTGAGGATGTCTATGGAAGACTCTGTTACTGAATCTCCTCAACGGGTCATAATCACTGAAGATGATGA
AGATGAGACCACTGTGGAGTTGGAAGGGCAGGATGAAAACCAAGAAGGAGATTTTGAAGATGCAGATACCCAGGA
GGGAGATACTGAGAGTGAACCATATGATGATGAAGAATTTGAAGGTTATGAAGACAAACCAGATACTTCTTCTAG
CAAAAATAAAGACCCAATAACGATTGTTGATGTTCTGTCACACCTCCAGAACAGCTGGGAGAGTTATTATCTAGA
AATTTTGATGGTGACTGGTCTGCTTGCTTATATCATGAATTACATCATTGGGAAGAATAAAAACAGTCGCCTTGC
ACAGGCCCTGGTTTTAACTCATAGGGAGCTTTTGGAGAGCAACTTTACTTTAGTGGGGGATGATGGAACCTAACA
AGAAGCCACAAGCACAGGAAAGTTGAACCAGGAGAATGAGCACATCTATAACCTGTGGTGTCTGGTCGAGTGTG
CTGTGAGGGCATGCTTATCCAGCTGAGGTTCTCAAGAGACAAGACTTACTGAATGTCCTGGCCCGGATGATGAG
GCCAGTGAGTGATCAAGTGCAAATAAAAGTAACCATGAATGATGAAGACATGGATACCTACGTATTTGCTGTTGG
CCACGGAAAGCCTTGGTGGGACTACAGAAAGAGATGCAGGATTTGAGTGAGTTTGTAGTGATAAACCTAAGTC
TGGAGCAAAGTATGGACTGCCGGACTCTTTGGCCATCCTGTCAGAGATGGGAGAAGTCACAGACGGAATGATGGA
TACAAAGATGGTTCACTTTCTTACACACTATGCTGACAAGATTGAATCTGTTCACTTTTTCAGACCAGTTCTCTGG
TCCAAAATTTATGCAAGAGGAAGGTCAGCCTTTAAAGCTACCTGACACTAAGAGGACACTGTTGTTTACATTTAA
TGTGCTTGGCTCAGGTAACACTTACCCAAAGGATATGGAGGCACTGCTACCCCTGATGAACATGGTGATTTATTC
TATTGATAAAGCCAAAAGTTCCGACTCAACAGAGAAGGCAACAAAAGCAGATAAGAACCGTCCCCGAGTAGA
AGAGAACTTCTTGAACTGACACATGTGCAAGACAGGAAGCAGCACAGTCTCGGCGGGAGGAGAAAAAAGAGC
AGAGAAGGAGCGAATCATGAATGAGGAAGATCCTGAGAAACAGCGCAGGCTGGAGGAGGCTGCATTGAGCGGTGC
AAAAAAGAGTTGGAAGAAGCAAATGAAATGAAACAAATCAAAGTGAAAGCCATGTAAAGCCATCCCAGAGA
TTTGAGTTCTGATGCCACCTGTAAGCTCTGAATTCACAGGAAACATGAAAACGCCAGTCCATTTCTCAACCTTA
AATTTAGACAGTCTTGGGCAACTGAGAAATCCTTATTTTATCATCTACTCTGTTTGGGGTTTGGGGTTTACAG
AGATTGAAGATACCTGGAAGGGCTCTGTTTCAAGAAATTTTTTTTCCAGATAATCAAATTATTTTGATTATTTT
ATAAAGGAATGATCTATGAAATCTGTGTAGGTTTAAATATTTTAAAAATTATAATACAAATCATCAGTGCTTT
TAGTACTTCAGTGTTTAAAGAAATACCATGAAATTTATAGGTAGATAACCAGATTGTTGCTTTTTTGTTTAAACCA
AGCAGTTGAAATGGCTATAAAGACTGACTCTAAACCAAGATTCTGCAAATAATGATTGGAATTGCACAATAAACA
TTGCTTGATGTTTTCTTGATGTCTACATTAACTTGAGAAAAAGTAAAAATTAGAACACTGTATGTAGTAATGA
AATTTAGGGACCCAGAACATAATGTAGTATATGTTTTAGGTGGGAGATGCTGATAACAAAATTAATAGGAAGT
CTGTAGGCATTAGGATACTGACATGTACATGGAATAATCTAGGGACAGGAGCATCATTTTTTCTTACCTGATAC
CACGAACAGTGACAACGTGAATGCTGTATTTAAGTGGTGTATGTTTATTTTCTTGAGTAACAAATGCATGAA
AAATTAATGCTTCACCTAGGTAAGATCATTGGTCTGTGTGAAATCACAAATGTTTTTCTTCTTGGTTGCTGCA
GCCTGGGTGGATGTTTATGGAGAAGCTCTGTTCTCTATATTATGGCTGTGTGCCGTTGCTTCTCCCTCTGCTTTT
ATCTTTTCCACAGTTGAGGCTGGGTATGTTCTTTCAAAGAAATGGCCATGAATATGTGTAAGTATACTTTTGAAA
ATGAGCTTTCCTAACTATTGAGAGTTCTTTCCACCTCTGCGGAACCAACTCTTGGAGGAGAGGCCCATGTATC
TGCACGAGCACTTAGCTTGTTGATCTCTGCATTTTATAAATGCTTCTTACCAAGAAAGCATTTTTAGGTCATT
GCTTGATACCAGGTAATTTTGGCCGGGATGGGTAAAGGTTGGGTTTTCTGGTGGGAGTGGGGTGGTGGGATTTT
TTGTTGATGCTTTAGTGCAGGCCTGTTCTGAGGCAATAACAAGTTGCTGTGAAAACAGCATGTGCTGCTGCCTTT
GTAAGTGCATGGAACCTTTTACATGGGTTTTCTCCAAGTTAATACAGAAATATGTAACTGAGAGATGCAAAAT
GTAATATTTTTAACAGTTCATGAAGTTGTTATTAATAAATACTAACATAAACTTAATTACTTTAATATTATATAA
TTATAGTAGTGGCCTTGTTTTACAAACCTTTAAATTACATTTTAGAAATCAAAGTTGATAGTCTTAGTTATCTTT
TGAGTAAGAAAAGCTTTTCTAAAGTCCCATACATTTGGACCATGGCAGCTAATTTTGTAACCTTAAGCATTATAT
GAACTACCTATGGACATCTATTAAAGTGATTGACAAAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1389

MKAFHTFCVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDSVTESPQRVIITEDDEDETTVELEGQD
ENQEGDFEDADTQEGDTESEPYDDEEFEGYEDKPD TSSSKNKDPITIVDPAHLQNSWESYYLEILMVTGLLAYI
MNYIIGKNKNSRLAQAWFNTHRELLESNFTLVGDDGTNKEATSTGKLNQENEHIYNLWCSEGRVCCGMLIQLRFL
KRQDLLNLARMRPVSDQVQIKVTMNDMDTYVFAVGTRKALVRLQEMQDLSEFCSDKPKSGAKYGLPDSLA
ILSEMGEVTDGMMDTKMHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKRLLFTFNVP GSGNTY PKD
MEALLPLMNMVIYSIDKAKKFRLNREGKQKADKNRARVEENFLKLTHVQRQEAAQSRREEKKRAEKERIMNEEDP
EKQRRLEEAALRRAKKKLEKKQMKMKQIKVKAM

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FIGURE 1390A

GGCACGAGCGAGGTTCTGGGCTGGTGTGTTCCGTTGCGAGCTGCGAGCTGCGATCTCTGTGGTAGGCGCCAGAAGTGTA
TGCTGACTTGTAAAGTGAAGAAGCCAGTGGTGCTGCGGGTGTTCTTTTGGGGTAGTGTCTGGGATCCAGTACGAG
TTGAATCATTGTTCAAATAAGGTGTAATTGAAAAGTGATCCTCTCTTCAGAGATGTCAAAAACAACAAATCCAA
GTCTGGATCTCGCTCTTCTCGCTCAAGATCTGCATCAAGATCTCGTTCTCGTTTCATTTTCGAAGTCTCGGTCCCC
AAGCCGATCTCTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTCTAGGTCTCGTTCCAGATCATATTCTCCAGCTCA
TAACAGAGAAAAGAAACCACCCAAGAGTATATCAGAATCGGGATTTCCGAGGTCAACACAGAGGCTATAGAAGGCC
CTATTATTTCCGTGGGCGTAACAGAGGCTTTTTATCCATGGGGCCAAATAAACCAGGAGGCTATGGAACTACCG
CTCAAATTGGCAGAATTACCGGCAAGCATACAGTCTCTCGTCGAGGCCGTTCAAGATCCCGGTCCCCAAAGAGAAG
TGCCCCCTTACCACAGGTCCAGGAGCCATTCTAGAACTCTGATAAGTCGTCTTCTGACCGGTCAAGGCGCTCCTC
ATCCTCCCCTTCTTCTCTCAACCATAGCCGAGTTGAATCTTCTAAGCGCAAGTCTGCAAAGGAGAAAAAGTCCTC
TTCTAAGGATAGCCGGCCATCTCAGGCTGCCGGGGATAACCAGGGAGATGAGGTCAAGGAGCAGACATTCTCTGC
AGGCACCTCTCAAGATACAAAAGCATCTGAGAGCTCGAAGCCATGGCCAGATGCCACCTACGGCACTGGTCTCTGC
ATCACGGGCGCTCAGCAGTTTCTGAGCTGAGTCTCGGGAGCGAAGCCAGCTCTCAAAGCCCCCTCCAGTCTGT
GGTGGTGAGGCGGCGGTCACCCCGTCTAGCCCGTGCCAAAACCTAGTCTCCACTTTCCAGCACATCCCAGAT
GGGCTCAACTCTGCCGAGTGGTGCCGGGTATCAGTCTGGGACACACCAAGGTCAGTTCGACCATGGTTCTGGGT
CCTGAGTCCATCCAAAAAGAGCCCTGTGGGTAAAGAGTCCACCATCCACTGGCTCCACATATGGCTCATCTCAGAA
GGAGGAGAGTGTCTGCTTCAGGAGGAGCAGCCTATACAAAGAGGTATCTAGAAGAGCAGAAGACAGAGAATGGAAA
AGATAAGGAACAGAAACAAACAAATACCGATAAAGAAAAATAAAAGAGAAAGGGAGCTTCTCTGACACAGGCTT
GGGTGATGGAAAAATGAAATCTGATTCTTTTGCTCCCAAACCTGATTCTGAGAAGCCTTTTCGGGGCAGTCACT
TCCCAAAGGTATAAGTCCGAGATGACTTTGAGAAGAAGATGGCTGACTCCACAAGGAGGAGATGGATGATCA
AGATAAGGACAAAGCTAAGGGAAGAAAGGAATCTGAGTTTGATGATGAACCCAAATTTATGTCTAAAGTCATAGG
TGCAACAAAAACCAGGAGGAGGAGAAGTCAGGCAAATGGGAGGGCCTGGTATATGCACCTCCAGGGAAGGAAAA
GCAGAGAAAAACAGAGGAGCTGGAGGAGGAGTCTTTCCAGAGAGATCCAAAAAGGAAGATCGGGGCAAGAGAAG
CGAAGGTGGGCACAGGGGTCTTGTGCCTGAGAAGAATTTCCGAGTGACTGCTTATAAAGCAGTCCAGGAGAAAA
CTCATCACTCCCCAAGAAAGACCTCTGAGAGCCGAGACAAGCTGGGAGCGAAAGGAGATTTTCCACAGGAAA
GTCTTCTTTTCCATTACTCGAGAGGCACAGGTCAATGTCCGATGGACTCTTTTGATGAGGACCTCGCACGACC
CAGTGGCTTATTGGCTCAGGAACGCAAGCTTTGCCGAGATCTAGTCCATAGCAACAAAAAGGAACAGGAGTTTCG
TTCCATTTTCCAGCACATACAATCAGCTCAGTCTCAGCGTAGCCCCCTCAGAACTGTTTGCCCAACATATAGTGAC
CATTGTTCACCATGTTAAAGAGCATCACTTTGGGTCTCAGGAATGACATTACATGAACGCTTTACTAAATACCT
AAAGAGAGGAACTGAGCAGGAGGCAGCCAAAAACAAGAAAAGCCAGAGATACACAGGAGAATAGACATTTCCCC
CAGTACATTACAGAAAACATGGTTTGGCTCATGATGAAATGAAAAGTCCCCGGGAACCTGGCTACAAGGCTAGGG
AAAATACAAAGATGATCCTGTTGATCTCCGCCCTGATATTGAACGTCGTAAAAAACATAAGGACAGAGATCTTAA
ACGAGGTAATTCGAGAGAATCAGTGGATTCCCGAGACTCCAGTCACTCAAGGAAAGGTCAGCTGAAAAACAGA
GAAACTCATAAAGGATCAAAGAAACAGAAGAAGCATCGGAGAGCAAGAGACAGGTCCAGATCCTCCTCCTCTC
CTCCCAGTCACTCTACTCTACAAAGCAGAAGAGTACACTGAAAGACAGAGGAAAGAGAGGAGAGCACCACGGG
CTTTGACAAATCAAGACTGGGGACCAAAGACTTGTGGGTGCAAGTGAAAGAGGAGGTTGGCAGAGCTCGAGGAAC
CTTTCAGTTTCGAGCCAGAGGAAGAGGCTGGGGCAGAGGCAACTACTCTGGGAACAATAACAACACAGCAACAA
CGATTTTCAAAAAAGAAACCGGAAGAGGAGTGGGACCCAGAGTACACACCCAAAAAGCAAGAAGTATTACTTGCA
TGATGACCGTGAAGGCGAAGGCAGTGACAAGTGGGTGAGCCGGGGCCGGGGCCGAGGAGCCTTTCCTCGGGGTG
GGGCCGGTTCATGTTCCGGAAATCAAGTACCAGCCCCAAGTGGGCCCATGACAAGTTCAGTGGGGAGGAAGGGGA
GATTGAAGACGACGAGAGTGGGACAGAGAACCGAGAAGAGAAGGACAATATACAGCCCAACACCAGTCTAGGGGCC
ACCTTACGCGGATTCTGCCCCAGGGGAGAGAGGCGCTGGGAAGATGGCTGGTGAGGAGCTTAACAGAGGAACCT
CAAGAAGATTCTGAAAATCTACCCCCACCCCCACCAGCCGCACAGATTGTACTACCGCAGAGGCATCCCTGG
CGCTGTCTCCCACTGGACAGAGGAGGCTGGCCATGGGGCCAGGGGTGAGGCCAGCTTTTGAGCAGAATACAAC
GCATTGGGCTTTAGCTGTTTTTCTCATTTGTTGGTGTGTGGGGTGGGGGCAGGGGTAGGGCGGGAGAGCGATGCT
TGGATTTTTGTTTTCTATTAGAAACCAACAGTTTTGTTCTAATTTTCAATTCATTGGAGCTAAGATGACTAATTT
GATGATTTTCGATCTCTTTTCCCTGTCTGATTTTAAAGCCCCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AGGCATATGTAGTAATATTAGAAACATTTAATTGGGAACTTTGATTCTTGAAGAGAAAACAAAAGCATGTGA

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FIGURE 1390B

ATAAACTTTGCTCGTGCC

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FIGURE 1391

MSKTNKSKSGSRSSRSASRSRSRFSKSRSRSLSRSRKRLSSRSRSRSPAHNRERNHPRVYQNRDFRG
HNRGYRRPYFRGRNRGFYPWGQYNRGGYGNYSNWQNYRQAYSPRRGRSRSPKRRSPSPRSRSHSRNSDKSS
SDRSRRSSSSSRSSNHSRVESSKRKSAKEKKSSSKDSRPSQAAGDNQGDEVKEQTFSGGTSQDTKASESSKPWPD
ATYGTGSASRASAVSELSPRERSPALKSPLQSVVRRRSPRSPVPKPSPLSSTSQMGSTLPSGAGYQSGTHQG
QFDHGSGSLSPSKKSPVGKSPSTGSTYGSSQKEESAASGGAAYTKRYLEEQKTENGKDKEQKQTNTDKEKIKEK
GSFSDTGLGDGKMKSDSFAPKTDSEKPFGRGSQSPKRYKLRDDFEKKMADFHKEEMDDQDKAKGRKESEFDDEP
KFMSKVI GANKNQEEKSGKWEGLVYAPPGKEKQRKTEELEEEESFPERSKKEDRGKRSEGGHGRGVPEKNFRVTA
YKAVQEKSSPPPRKTSESRDKLGAKGDFPTGKSSFSITREAQVNVNRMDSFDEDLARPSGLLAQERKLCRDLVHS
NKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVTIVHHVKEHHFGSSGRTLHERFTKYLKRGTEQEAANKKSPEI
HRRIDISPSTFRKHGLAHDEMKSPPREPGYKAEGKYKDDPVDLRDLIERRKKHKERDLKRGKSRESVDSRSDSSHRSR
ERSAEKTEKTHKGSKKQKKHRRARDRSRSSSSSSQSSHSYKAEYETEETEEREESTTGFDKSRGLTKDFVGPSE
GGRRARCTFQFRARGRGWGRGNYSNNNNNSNNDFOQRNREEEWDPEYTPKSKKYLLHDDREGEESDKWVSRGRG
RGAFPRGRGRFMFRKSSTSPKWAHDKFSGEEGEIEDDESGTENREEKDNIQPTTE

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FIGURE 1392

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCTCGTTGTCCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACCATGAAGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCCCTATGAACCCAAGTGTGGTTGGAGTTGATGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACTTAAATCTACTAAT
ATTTCAATTTACAAACATGGTTTTAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAACT
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGCCGAGAAGCAATGGAATGGGTAATACATAAATTAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGCAGAGAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAACTTGACTATATATTTTATTGTTATTTTAAAAATAC
AACTATATTTTGGGTAGTTTTTTTTTTTTTTTTTGGATAAGTTGGTGTAAAGCTATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAGGGATCATCTGAAATTAATGTTGTTTGAATTTACTATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAATTCACAAGAAGTCTCCTTGGAACTGGTATTGATATTCACTCTCCTTAAGGTAGATTTT
TCAAGCTTTTCATACATTGGAAGTCCACCTGACTTTGGACCAACCCAGAACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTCGCTGCTGTACACTTCAGCAGCTTGACAAAGGGAGCTCACTTAAAGGAGAAATGTGTAGTT
TTAAATATATTTTGTGTAAATACCTTACTATGCTATAAACCCACCATTAAAAACCAGTGTTTTGATTGGTACT
TAAATATTTTGGAGTGAAAATTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAACTTAGTAAAGGTATTAAGTCTCCTTGGATTGTACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAATAAAGTCATTACCTGAGTTTGCAGTGCCTAACTTA
AACAGAAGAACAGCTGTTTACATCTTTTAGCATTTTACATTTGCCTAACTTAAAAATGCCATGTGTCAAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTGAAATTACTCAAATGATGTCTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTTAATAATATGGTGCCACTGCAGGATTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGGCCTGAACTAACCCTGAGTGAATTGCACTGCAGGTTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAAGTACTAAATAATAGCTTTGACATTGCAATTGTTGCATAGAGACTATTTTGTAGAGAAGATGATTAGC
TCTTGCCTTTTATTTACAGTGCTTAGTGTGATAAACTTCTAGTCATGTTTCTATCCAAGAGACCAGTTAATATA
TGTACATAAACCACAGAAATAGTATAACACACTATTTTAAATTATCGTTTCTTACTTAAATTTTGTGTTAGCTT
AAGACTTCTTAGGACATTTGTAAAGCAGGTAAATTTAATAAGGTTTCTGATTTTTTTTTGTAACCGGAGATAG
TTTTTACAAGTGAATAACATTTAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTCTGAAAAAGGTGTAATGCCCTAATATTTTAAATCCTTATCCTTTGATT
TTTTTAAAACTGACCTATTGATAAACTATAAATTTTCAATTTCCAGTGCAGTTAGTTACCTTTTTAAACATAAA
TGCACAACAAGCAAATGAATTTAAGAGAACTAACTGGAATAAGTGTTCATAAATGAAACCTTGGACTATTTAA
TAAAGTTGAAATGTGAATTAAGGAAACTTTTGTAAATAAAAACTTTCTTTTAAAAAAA

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FIGURE 1393

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLDHRIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

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FIGURE 1394

ATATGATCCGCTCGGCTTCTCGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCCGCGCTCGTCCGTCCTCCCGT
CCGTTCTCGTCCCGGCCGCCATCATGCTGGCGCTCATCTCCCGCTGCTGGACTGGTTCCGTTCTGCTCTCTG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTCAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACATAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCCAGTGTAGTGTGTTGAAAACAAGAGAGATCTTCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTTCAGCATTCAAATCTAGAAGAAGCTGAAGCATCTCTTGAAAGT
CTCCAGTCTCTTCTGGCTATAATCTAGAAATTATTGTCCGTTCTCTGAAAGTAATTCCCAGAATACGGTCTCTC
CTAAACCCAGAAATGGCTTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCTCTC
ATAAAGAATCAGCTAGAGTTGTCATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAACCCTATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTTATATTGGTTTTTCTAGTAAATGTCTATCTATAATATTTT
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTCTAGTGCCACACACAGTATTT
AGAAAACTTTAGGCGTGAATGACTCATGTGGGATATATGTAACATAATGTTTATTTTATCTACAAATGCAAG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAGATATCCTGCTTTCTGAGAAGTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAAGTAAAGCATCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTGTTTTTCTC
TTCCGTGGTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTAGAGCATT
CCACCCATATAATAAAACCTGTGAAGATGTCAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGTGCTGCATGACACTCTTAACCTCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTACGACAAAA
GATACTTATAAAACAAATAAAAAATTTTTATTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTACTGGTG
CCATTAGACATCTTGATTATTGTGACAACTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAAATAATCAGTCACACAGAGAACTGAGGAAGTATGCTGTTTGTGTTTCTATGATACAGAGATGT
CTAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTATATAGACCCTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTCTTTTGTGAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTTGTCTTTCTCCATTCATATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAACTTGTCTACTGTTGTCAACACCATTAAATGGTCAAGTGTGAACCATTACAAAGAATGTGGCACT
TGCTTGTGCTTAAAGGAGGAATTGGAAGTGAATGTGTGACTCTGTGGGACTGCATAGGTTTGTAAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATGCTTTCCGCATTTCAGACATCCAGACGCTATTACCA
ACATTTTCTGTGCATTAACTCTGCATGTGAAAACCTTTAACAGTTACTGAACTATGTAAATATGTGAATTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTAAAGGT
TGTATTGGCAATTTAACTTAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGAAGTTCCGAGAGGAGG
GTCTATAGACCATTGTGCAAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAAAATAGAAATAA
ACTTTTAAATATCCACAG

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FIGURE 1395

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSISCKEKNIDITLQWLIQHKSRRS

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FIGURE 1396

GAGCGGCACAGACGAGATCTCGATCGAAGGCGAGATGCGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGA
TTTCGCCATGGATGAGGATGGGGACGAGAGCATTACAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGG
CTTTGGCTCCGAGGGGTCCCGAGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGG
ACCACAACGCTCTGTTGAAGGCTGGATTCTCTTTGTAAGTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACA
CGACAAATTCGCAGAATATGGGGAAATTAAAAACATTCATCTCAACCTCGACAGGCGAACAGGATATCTGAAGGG
GTATACTCTAGTTGAATATGAAACATACAAGGAAGCCAGGCTGCTATGGAGGGACTCAATGGCCAGGATTTGAT
GGGACAGCCCATCAGCGTTGACTGGTGTTTTGTTTCGGGGTCCACCAAAGGCAAGAGGAGAGGTGGCCGAAGACG
CAGCAGAAGTCCAGACCGGAGACGTCGCTGACAGGTCCTCTGTTGTCCAGGTGTTCTCTTCAAGATTCCATTGTA
CCATGCAGCCTTGGACAAATAGGACTGGGGTGGAAGTGTGCTGTTTATATTTAATCTCTTACCGTATATGCGTA
GTATTTGAGTTGCGAATAAATGTTCCATTTTGTCTTTCTAC

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FIGURE 1397

MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEGSARMREDYDSVEQDGDGDEPGPQRSVEGWILF
VTGVHEEATEEDIHDKFAEYGEIKNIHLNLDRTGYLKGYTLVEYETYKEAQAAMEGLNGQDLMGQPI SVDWCFV
RGPPKGKRRGGRRRSRSPDRRRR

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FIGURE 1398A

TGAGGCGCGGGAGGCCCCGCGCCCCGCGCTCGCTGTGCGTGGGAGGGCGCGAGCGAACGCGGGCGAGGAGCGGCC
GAGCCGCTGAAGAGGAGCTGGGCGCCGCGCCCGCGCTCGGCCCGCGGATCGCCTCCGCCCGGTCTTCGC
CGGCCCCGCGCCCTGGCGAGATGCGCGTGTGGGAGGATTGGCTCAGCCACCCGCTGGGAATCGTGCAGGGATTCT
TCGCCCCAAATGGAGTTAATCCTGACTGGGAGAAGAAAGTAATTGAGTATTTTAAGGAAAAGCTGAAGGAAAATA
ATGCTCCTAAGTGGGTACCATCACTGAACGAAGTTCCCTTCATTATTTGAAACCTAATAGTTTTGTGAAATTC
GTTGCATGATTCAAGATATGTTTTGACCCTGAGTTTTACATGGGAGTTTATGAAACGGTTAACCAAAACACAAAAG
CACATGTTCTTCATTTTGGAAAATATAGAGATGTAGCAGAGTGTGGGCTCAACAAGAACTTGATTTAAACTCTC
CACGAAATACCACCTTTGGAAAGACAGACTTTCTATTGTGTTCCGGTGCCTGGGGAATCTACGTGGGTAAAAGAAG
CCTATGTTAATGCAACCAAGCTCGAGTCAGTCCCTCAACATCCTACACTCCTAGTCGCCACAAGAGGAGTTATG
AAGATGATGACGATATGGACCTACAGCCCAATAAGCAGAAAGACCAACATGCAGGTGCCAGACAAGCAGGGAGTG
TTGGTGGTCTTCAATGGTGTGGAGAGCCAAAACGTTTAGAAACTGAAGCTTCTACTGGGCAACAGCTGAACCTC
TGAACCTGTCTTCTCCTTTTGATTTGAAATTTTCATTGCCAGGAGAGAAGGGCCCTGCATGCCTTGTGAAGGTTT
ATGAAGATTGGGATTGTTCAAAGTAAATGACATTCTTGAGCTATATGGCATACTGTCTGTGGATCCTGTGCTGA
GTATACTGAATAATGATGAAAGGGATGCCCTGCACTGCTGGATCCGATGGAGTGCACAGACACAGCAGAGGAGC
AGAGAGTACACAGTCTCCTGCTTCATTAGTGCCGAGAATTCATGTGATCTTAGCCCAAGTTGCAACACATCA
ACCCATTATTGCCTGCCTGCTTAACAAAGAGGAGAGCAAACTGTAAGTTTGTTCAGTTTCATGTCCGAAT
TGCTCCAGTCAGAGCAGAACTTCTTGGGTTCCTTACTCATGCCCTTCTGGGGGATAGTTTGGCTGCTGAATACC
TTATATTACATCTCATCTCCACAGTATATACAAGAAGAGATGTCCTTCCACTAGGAAAATTTACAGTTAACTTGA
GTGGTTGCCACGGAATAGTACCTTCACAGAACACTTGTATCGAATTATTCAACATCTTGTTCAGCATCTTTTC
GTCTGCAGATGACTATAGAGAACATGAACCAATTTGAAATTCATTCCCCACAAGACTACACAGCCAATCGCTTGG
TCAGTGGGCTCCTCCAGCTGCCAGCAATACTTCCCTTGTAATCGATGAGACTCTCCTGGAACAGGGGCAGCTGG
ATACCCCAAGGTGTTTATAATGTGACAGCCCTGAGCAACCTCATAACGTGGCAGAAAGGTGGATTATGACTTCAGCT
ACCATCAGATGGAATTTCCCTGCAATATTAACGTTTTTATTACTTCGGAGGGGAGGTCACCTCCCGGCAGACT
GCCAGATTCACTTACAGCCCCAGCTAATTCACCAAAACATGGAGGAGTACATGAACAGCCTTCTCTCAGCGGTGC
TGCTTCCGCTGCTGAACAAATTCGCATTTATCTAATCTTTTGAGATTCTTGGAAATATAGCATATCTGATGAAA
TAACCAAGGCAGTTGAAGATGACTTTGTGGAATGCGGAAGAACGACCTCAGAGCATCACTGCTGATGATCTTC
ACCAGCTGCTCGTGGTGGCTCGGTGTCTGTCTCTCAGTGTGCTCAGACAACGCTGTCAAGAGAACGATGGCTGA
GAGCAAAGCAGCTAGAGTCTTTAAGAAGAACGAGGCTCAGCAGCAAAAATGTGTGAATGGAAATGAACCTTAA
GATGTAATACCTATGAAGAGTAATGGGCAAACTGTAGCCACATAATTGTAATTCAGATATTCATTTATACCAC
ATTGTTTTATAGTAATTTCTATCACAACCCAGTGACATTTCTGAAATCAAGCCTGGTAACACCTGATGTTTAT
ATGATATTCAGTAAGGACTTTTACCTTACTGATTTTCATGGAGCTTTTGAAGTTTGTTTTATAAATATATAAA
TTAGTAATGATGTAAAAAAGTATTTGATATTAAGTTTAATATTGATAATGTTGCTGATTGTACCATTTCCCTT
AGCTTCAGCTGAGTCATAGGCCAGACTGTTGAAATGCTGAAATGAAGAAGGTTGTTGCAGTTTCAAAGTCAGAGG
AATCGTGCTTCGGATTTCTTATGTTTTCTAGTTCTCTGTTTTTCCAGTTCACAGTGGGTGGGGTGCATTTCAGTA
GTCCATCTTTGGGGAACGGAGGCGTACTTGCCATTGATTCACATGACTACATGAAATTCGTACTGTCTATTCCC
AGATGTTTGGCCACAGAACTTTTCCCACTTAACATTTGTTAACAGCCTGCAAACTAACTTGTACATGGCAG
TGGTTCAGACTTTTGTATTTTATGGACCGGTAGTAATTTTCAAAAATCTGGGGTACTATAAGGTTGCCAAT
TTACCTTGCCAAGTAATCCGAATAAATCACTGTATTATCACCATTTTTTTCATAAAAGGAAAGGACAATCTATCT
CTGAATAAGAGGAGTCCTTTAAACGGAATGAATGTGGCTTTTGGGGGCAAAAGAAACCAAGACACTACATTGTCT
TTATTTTCTCCTATCCAGTGCATTTGAGAACCATGCATAAGGGAATGCTGTGCTACAAAGCTGTGCCCAAATAT
GAAACAAAATAGGAACTTAAAAAGCAATACCCCTTTAGAAAGTTTTTATTTTCTTAAATGTCATTGAGTTGC
TTTGATTCTATTGGATTTTGGCATTTTATGGGATCATCAGTTGGTTCCAAGTATGTTAGATCAGCTAACATC
TGCTACTCCAGTAACAGCCTCGTACAACCTGCAGGTAGGTTTTCTCCAGACCAATTAGTTTTAATAGAGCAAACTA
ACAACAGACTGTAGTAGCATGGTTATGGCAACCAGAATCTTCAGAAAGGTTAGGACATTACTTTTAAAGCTGTCA
GTGGTATCAAATAACTTACCTAGTTGGAGGCAGATAAAGGATCCCTTACGTTTTTCTATAAGGCCATAATTGA
AATTGTTAACCAAGGAAACAGGGTCAGCCTTGAAAAATCAAGGAATTCATTGTACCTAATAACTGAAGTAAAAAT
AACTAGTTGTTCAACTTTTCTAACTCAATCTATTTTTATAACAAATGTAAATAATGTTTATATTAGAGTTG
AACTGGTTTTTCATTTTTATACTGGTAGACTAGACCTTCTTAACTTTTAGAAATAAAATGAAGGCTTCACTGG

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FIGURE 1398B

ATTGTGAGGATAAAATACATTTTCTTTAATTGTCCTAGAGCAAAGTACATTAGTCACCATGTGTTTTTGTGCC
AATGTAACCTGTAAATTACCAAAGAAAAATACATACATTGCTTGGTCTTGCAGAAAAGTTCCCTTGAAAGAACCT
TTCCAATAAATAAAACGTCCCAAATTAGCAGTACCTTGGGCTGTTTTTCATGAGTAAGAAGATTCACCATCCCAT
GTGATCTGTGTGGAAAAAGACCATGTCTCTTGGTGGAGACATGAGAGAGCTGAACTGAAGTGGAGGAGGTGGT
GCAAGAGGGACCTTCCTGCTCAAGGCCCGCCAGGCAGCGGAATAGAGTGCAGTGCTTGGCTGCAGAAACCCTTT
GTCCCTCACCTATATATACACGGACAGTCAAGTTTGTGCTCTAACGTAAGGCACAGCGTTAATCCTGTATGGCC
AGGAAACTGAGTAGACTCCTGTGTAACCCTGTTTGGAACTTTGCCTTCTTAAATGATTTTTC

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FIGURE 1399

MPCGEDWLSHPLGIVQGFFAQNGVNPDWEEKVIEYFKEKLKENNAPKWVPSLNEVPLHYLKPNSEVVKFRMIQDM
FDPEFYMGVYETVNQNTKAHVLHFGKYRDVAECGPQQELDLNSPRNTTLERQTFYCVVPGESTWVKEAYVNAQ
ARVSPSTSYTPSRHKRSYEDDDMDLQPNKQKDQHAGARQAGSVGGLQWCGEPRKLETEASTGQQLNSLNLSSPF
DLNFFPLPGEKGPACLVKVYEDWDCFKVNDILELYGILSVDPVLSILNNDERDASALLDPMECTDTAEQVRVHSP
ASLVFRIHVILAQKLQHINPLLPACLNKEESKTCKFVSSFMSELSPVRAELGFLTHALLGDSIAAEYLILHLIS
TVYTRRDVLP LGKFTVNLSGCPRNSTFTEHLYRIIQHLVPASFRLOMTIENMNLKFI PHKDY TANRLVSGLLQL
PSNTSLVIDETLLEQQQLDTPGVHNV TALS NLITWQKVDYDFSYHQM EFPCNINVFITSEGRSLLPADCQIHLQP
QLIPPNMEEYMNSLLSAVLPSVLNKFRIYLTLLRFLEYSISDEITKAVEDDFVEMRKNDPQSITADDLHQLLVVA
RCLSLSAGQTTL SRERWLRAKQLES LRRLQQQKCVNGNEL

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FIGURE 1400

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCCACCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCCGCGCTTCGCTATCGCGGCAATTCCCCAGAT
TCCTGGCAGCCACCCAAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACCTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGCATCTATCTATGGCAAACAGTTT
GAAGATGAACCTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAAGGCATACCCCTTCTGGGTAGACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTTCAATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTCTCTTCCCCAGTGCCTA
GGTTGCCAGAGCATTTCACAAAATGCCCTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTCGAACAATGTAGCAGCCACTGTCAATTTCTCAGTGGTTTTGCCTAA
CCAAACTTCTTCTAAGGAGATTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTCAGCCCTCTTAACCTCTGTGCACGCCCTATTTCACTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTTCCCTCTCAAAACCAGAACATCAACAGTGTCTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTTGCCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTTAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTATATGTTTCAAGT
GTTTATGTATAAAAAATAACTTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1401

MAAIPDSWQPPNVYLETSMGIIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKIIKAYPSG

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FIGURE 1402

ACCACGCGTCTCATCCATGGCCTTCCGCGGACTCGCGCCGGGTGGCAGATGGCGGCGGTGCCGGGGGCACCTTCCA
GCCCTACCTAGACACCTTGCGGCAGGAGCTGCAGCAGACGGACCCAACGCTGTTGTCACTAGTGGTGGCGGTTCT
TGCGGTGCTGCTGACGCTAGTCTTCTGGAAGTTAATCCGGAGCAGAAGGAGCAGTCAGAGAGCTGTTCTTCTTGT
TGGCCTTTGTGATTCCGGGAAAACGTTGCTCTTTGTGAGGTTGTTAACAGGCCTTTATAGAGACACTCAGACGTC
CATTACTGACAGCTGTGCTGTATACAGAGTCAACAATAACAGGGGCAATAGTCTGACCTTGATTGACCTTCCCGG
CCATGAGAGTTTGAGGCTTCAGTTCTTAGAGCGGTTTAAAGTCTTCAGCCGGGGCTATTGTGTTTGTGTGGATAG
TGCAGCATTCCAGCGAGAGGTGAAAGATGTGGCTGAGTTTCTGTATCAAGTCCTCATTGACAGTATGGGTCTGAA
GAATACACCATCATTCTTAATAGCCTGCAATAAGCAAGATATTGCAATGGCAAAATCAGCAAAGTTAATTCAACA
GCAGCTGGAGAAAGAACTCAACACCTTACGAGTTACCCGTTCTGCTGCCCCCAGCACACTGTACAGTTCCAGCAC
TGCCCCCTGCTCAGCTGGGGAAGAAAGGCAAAGAGTTTGAATTCTCACAGTTGCCCTCAAAGTGGAGTTCTCTGGA
GTGCAGTGCCAAGGGTGGAAAGAGGGGACGTGGGCTCTGCTGACATCCAGGACTTGGAGAAATGGCTGGCTAAAT
TGCCTGAGAGGCAGCTCTAAAGCACAAAGACCTGGATGTGTGACACACAGTTTTGGAAAAAGGTCTGTGGTAGTCT
GGAGTTGATGAGGAAGGGGTACAAGATGTGGTTAGAAACATTTCTTTGTTCTGGAAACAAAGTACTGTTGAAACC
AGCTTGGAATTTTTTTTTTTTTTTTTTAAAGTTTCAGTTCTCCCTTATGGCTGCCTTTCAAACAAGTACCTTTTA
TCTGATGCCTGTATCTTCCCTTTGTTAAGGTGTAACCTTGATGTAGGGTCAAGGTTTTTGTGACAACAGGCAGACT
CCACACAGAGAGGATATGATGAGAATATGGCCATCACCTGAAAAGTTTTCTTATCTTCTGTGCTTTTGGTCCCTG
GAAACAAATCCGCCTATGTATGAAGCTAGTTGATTTCAGTTGCACTATTTCCAGTTGCCTCTGAAGTTCACAGG
CAATACATTGTCTAGTCTTTTGCGAATTTCTCTGATTTGTGGGCACAGTTATGAAGTTTCCCCACATGTGAAGAC
AGGTACAAAAATAGCAGAGCCAAGCAGACAGTGGGTCTATTCTTCATTAGCTCAGTGACTTGTCACACTCGTCTT
AGCACTTACGTTTCAAAGCCTTGTCAAAACCCTTGGAGTCATTCCCAGATAATAGAACTGGAAATGATAAATCC
CCTAATGCCAAGGGTCTAGTGTGTTCTTAGTGGTTATACTGGGAAGTGTGTGGAGATTTAGGTGCTGCTCTGCTG
CTCTGGATGGCTGAAGGCTCCTGGGCCATCTTCATGTGCTGCTTGAAGAGCTCCTATTTTGTACTCCTGGCTAGA
ATGCTGTGGAACAAATACAAAGTGAAAAAAGTTCTCTGTAGATTTCTGAAGTGCATATTCATTGATGCCAAGAAA
AAAAAAAGTTGCCTTTTTG

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FIGURE 1403

MASADSRVADGGGAGGTFQPYLDTLRQELQQTDPDLLSVVAVLAVLLTLVFWKLIRSRSSQRAVLLVGLCDS
GKTLFVRLLTGLYRDTQTSITDSCAVYRVNNNRGNSLTLLDLPGHESLRLQFLERFKSSAGAIVFVDSAAFQR
EVKDVAEFLYQVLIDSMGLKNTPSFLIACNKQDIAMAKSAKLIQQQLEKELNTRLRVTRSAAPSTLYSSSTAPAQL
GKKGKEFEFSQLPLKVEFLECSAKGGRGDVGSADIQDLEKWLAKIA

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FIGURE 1404

CAGCTTCCCACCCTGGGCTTTCCGAGGTGCTTTCCGCCGTGTCCCCACCACTGCAGCCATGATCTCCTTAACGGA
CACGCAGAAAATTGGAATGGGATTAAACAGGATTGGAGTGTCTTTCTGTTCTTTGGAATGATTCTCTTTTTTGA
CAAAGCACTACTGGCTATTGGAAATGTTTTATTGTAGCCGGCTTGGCTTTTGTAATTGGTTAGAAAGAACATT
CAGATTCTTCTTCCAAAAACATAAAATGAAAGCTACAGGTTTTTTCTGGGTGGTGTATTGTAGTCCTTATTGG
TTGGCCTTTGATAGGCATGATCTTCGAAATTTATGGATTTTTCTCTTGTTCAGGGGCTTCTTCTGTCTGTTGT
TGGCTTTATTAGAAGAGTGCCAGTCCTTGGATCCCTCTAAATTTACCTGGAATTAGATCATTGTAGATAAAGT
TGGAGAAAGCAACAATATGGTATAACAACAAGTGAATTGAAGACTCATTAAAAATATTGTGTTATTTATAAAGT
CATTGAAGAATATTCAGCACAAAATTAAATTACATGAAATAGCTTGTAAATGTTCTTTACAGGAGTTTAAACGT
ATAGCCTACAAAGTACCAGCAGCAAATTAGCAAAGAAGCAGTGAAAACAGGCTTCTACTCAAGTGAACATAAGAAG
AAGTCAGCAAGCAAACTGAGAGAGGTGAAATCCATGTTAATGATGCTTAAGAACTCTTGAAGGCTATTTGTGTT
GTTTTCCACAATGTGCGAACTCAGCCATCCTTAGAGAACTGTGGTGCCTGTTTCTTTCTTTTATTTTGAAG
GCTCAGGAGCATCCATAGGCATTTGCTTTTTAGAAGTGTCCACTGCAATGGCAAAAATATTTCCAGTTGCACTGT
ATCTCTGGAAGTGCATGAATTCGATTGGATTGTGTCTTTTTAAAGTATTTAAACCAAGGAAACCCCAATTTT
GATGTATGGATTACTTTTTTTGTAAACATGGTTAAAATAAACTTTTTGTGGTCTTCTGAATCTTAATATTTCA
AAGCCAGGTGAAAATCTGAAGTAGATATTCTTTGTGGAATATGCAAAGGTCATTCTTTACTAATTTTAGTTAC
TAAATTATAGCTAAGTTTTGTGTCAGCAGCATACTCCGGAAGTCTCATACTTCTTGGGAGTCTGCCCTCCTAAGTA
TCTGCTATATCATTACGTGTAAGTATTTAAACAAAAAGCATTCTTGACCATGAATGAAGTAGTTTGTTC
ATAGCTTGCTCATTGAATAGTATTATTGAAGATACTAAATGATGCAAACCAAATGGATTTTTTCCATGTCATGA
TGTAATTTTTCTTCTTCTTTTTTTTTTAAATTTTAGCAGTGGCTTATTATTTGTTTTTCATAAATAAAATA
ACTTTTGATAAGTGTAACTTTAAGACATGTAACATGTTAAAAGGTAAACTTATGGCTGTTTTTAAAGGGCTATT
CATTTAATCTAGTGTTCCTTATTTTTCAGCTTTTTCTAGCATATAATAGTCATTAAAGCATGACATATCCTTCA
TATGATCCTCATCTTGAGTTAATTAGAAAATACCTGAGTTCACGTGCTAAAGTCATTTCAGTGAATAAACTGA
CTATGGTTTTCTTAAGAACATGACACTAAAAAAAAGTGGTTTTTTCCACCGTGTGCTGATTATTAGACAGTAGG
AAATAGCTGTTTTCTTTAGTTTTACAAGATGTGACAGCTTTAGTGGTAGATGTAGGGAAACATTTCAACAGCCAT
AGTACTATTTGTTTTACCCTGATTGCACTATTTGTTTTTTAACAGTTGCAAAGCTTTTAAATGCATAAAAGT
ATAATTGAAATCTGTGGTATTTATTTACAAACATGCTACAAAAATAGATTACAGCTTATTTTATTTTAGTTAA
ATCTCTTAATACACAGAGAACTCCCAATCTTGCTCATCTAAATAAGGAAAGACTTGGTGTATAGTGTGATGGTTT
AGTCTTAAGGATTAAGACATTTTTGTTACTTGCACTTACGATGTATCTGTGAAAATGGGATGATATTGAC
AAATGGAGACTCCTACCTCAATAGTTAATGGAATAATAAGAGGCTACTGTTGTGTCTAATGTTCTTCAAAAAGT
AATACTCCTCACTTGGAGAGTGTCAAATACATACTTTGAGGATTGACTTTATATAAGGTGCCCTGTAGAACTCTGT
TACACATATTTTTGACCCATATTATTTACAATGTCTTGATAATTCTACCTTTTATAGCAAGAATAGTATCTGCT
AATGTAAGGGACATCTGTATTTAACTCCTTTGTAGACATGAATTTCTATCAAAATGTTCTTGCAGTGAACAGA
GATTCTTTTTTCAATAATCTTAATTTCAAAGCATTATTAGACTTGAAAGGGTTTGATAATCTCCAGTCCTTAG
TAAAGATTGAGAGAGGCTGGAGCAGTTTTAGTTTTAAATGAGTCTGCAGTTAATATCAAAATGTGAGTTTGGGAC
TGCTTGGCAACATTTATATTTCTTATTTCAGAACCTTTGATGAGACTATTTTAAACATACTAGTCTGCTGATAGA
AAGCACTATACATCCTATTGTTTCTTTCTTCCAAAATCAGCCTTCTGTCTGTAACAAAAATGACTTTATAGAG
ATGGAGGAAAAGGTCTAATACTACATAGCCTTAAGTGTCTGTCTGTTCAAGTGTATTTCTGTAACAGAAA
CATATTTGGAATGTTTTCTTTTCCCTTATAAATTGTAATTCCTGAAATACTGCTGCTTTAAAAAGTCCCCTG
TCAGATTATATTATCTAACAATTGAATATTGTAAATATACTGTCTTACCTCTCAATAAAAGGTACTTTTCTAT
CAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1405

MISLTDQTQKIGMGLTGFGVFFLFFGMILFFDKALLAIGNVLFVAGLAFVIGLERTFRFFFQKHKMKATGFFLGGV
FVVLIGWPLIGMIFEIYGFFLLFRGFFPVVVGFIIRVPVLGSLNLPGIRSFVDKVGESNNMV

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FIGURE 1406

AAAAAACCCAGGAAGTGAAGTCCCCGAGCAGCTTAGAAAGCCTGACATGGCCTGACTCGGGACAGCTCAGAGCAGG
GCAGAACTGGGGACACTCTGGGCGGCCCTTCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACC
ACGAGCGAGGGAAGAAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATCTACTAGAAG
CACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCTGCTGCTGTTTACAAAAGATGCTTTTTATCTTTAACT
TTTTGTTTTCCCACTTCCGACCCCGGCTTGATCTGCATCCTGACATTTGGAGCTGCCATCTTCTGTGGCTGA
TCACCAGACCTCAACCCGCTTACCTCTTCTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGA
AGGGGGTTTCCAGAAGAACAATGACCTAACAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTCC
AAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAACCAGCCCTACAGATGGCTAT
CTTACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCCCTGCTCTTGCATAAAGGTTATAAATCATCACCAG
ACCAGTTTGTGGGCATCTTTGCTCAGAATAGGCCAGAGTGGATCATCTCCGAATTGGCTTGTACACGTACTCTA
TGGTAGCTGTACCTCTGTATGACACCTTGGGACCAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCCA
TGGTGATCTGTGACACACCCCAAAAGGCATTGGTGCTGATAGGGAATGTAGAGAAAGGCTTACCCCGAGCCTGA
AGGTGATCATCCTTATGGACCCCTTGTATGATGACCTGAAGCAAAGAGGGGAGAAGAGTGGAAATTGAGATCTTAT
CCCTATATGATGCTGAGAACCTAGGCCAAAGAGCACTTCAGAAAACCTGTGCCTCCTAGCCCAAGACCTGAGCG
TCATCTGCTTACCAGTGGGACCAAGGTGACCCCAAGGAGCCATGATAACCCATCAAAATATTGTTTCAAATG
CTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCCATATCCTACCTCCCTC
TGGCTCATATGTTTGGAGGATTGTACAGGCTGTTGTGTACAGCTGTGGAGCCAGAGTTGGATTCTTCCAAGGGG
ATATTCGGTTGCTGGCTGACGACATGAAGACTTTGAAGCCACATTGTTTCCCGCGGTGCTCGACTCCTTAACA
GGATCTACGATAAGGTACAAAATGAGGCCAAGACACCCTTGAAGAAGTTCTTGTGAAGCTGGCTGTTTCCAGTA
AATTCAAAGAGCTTCAAAGGGTATCATCAGGCATGATAGTTTCTGGGACAAGCTCATCTTTGCAAAGATCCAGG
ACAGCCTGGGCGGAAGGGTTCTGTGAATTTGTCAGTGGAGCTGCCCCCATGTCCACTTCAGTCATGACATTCTTCC
GGGCGCAATGGGATGTGAGGTGTATGAAGCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTAC
CTGGGCACTGGACATCAGGTCACGTTGGGGTGCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGACA
TGAACACTTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTCAAAGGATACCTGAAGG
ACCCTGAGAAGACACAGGAAGCCCTGGACAGTGATGGCTGGCTTCACACAGGAGACATTGGTCGCTGGCTCCCGA
ATGGAACTCTGAAGATCATCGACCGTAAAAAGAACATTTTCAAGCTGGCCCAAGGAGAATACATTGCACCAGAGA
AGATAGAAAATATCTACAACAGGAGTCAACCAGTGTACAAATTTTGTACACGGGGAGAGCTTACGGTCATCCT
TAGTAGGAGTGGTGGTTCTTGACACAGATGTACTTCCCTCATTTGCAGCCAAGCTTGGGGTGAAGGGCTCCTTTG
AGGAACTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTGAAGACTTGCAGAAAATTGGGAAAGAAAGTGGCC
TTAAAACCTTTTGAACAGGTCAAAGCCATTTTCTTATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACAC
CAACATTGAAAGCAAAGCGAGGAGAGCTTTCCAAATACTTTCCGACCCAAATTGACAGCCTGTATGAGCACATCC
AGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAATGGATTAAAAACTATT
CTTACATTTGTTTTGCCTTTCTCCTATTTTTTTTTTAACCTGTAAACTCTAAAGCCATAGCTTTTGTTTTATAT
TGAGACATATAATGTGTAACTTAGTTCCCAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATT
AAGGCTTCAGGGCTACTTTTATCAACATGCCTGTCTTCAAGATCCAGTTTATGTTCTGTGCTCTTCTCATGAT
TTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCCTTCTTCTTTGTTTTGT
GATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTTCTACTGTCAAACCTAAGAGATTTTAAATTCCT
GAAAAACTGCTTACAATTCATGTTTTCTAGCCACTCCACAACCCTAAATTTTAGTTTTAGCCTATCACTCAT
GTCAATCATATCTATGAGACAAATGTCTCCGATGCTCTTCTGCGTAATTAAATTGTGTACTGAAGGGAAAAGTTT
GATCATACCAAAACATTTCTTAACTCTCTAGTTAGATATCTGACTTGGGAGTATAAAAATTGGTCTATGACATAT
TGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGAAGGAAGTGGGAGTAAATCTGTCCCTACAGTTTGC
TGCTGAGCTGGAAGCTGTGGGGGAAGGAGTTGACAGGTGGGCCCAAGTGAACCTTTCCAGTAAATGAAGCAAGCAC
TGAATAAAAACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCACACAACAGGCTTATTTCTG
TGAAGGAACCACTGATCTCCCCACCCTTGGATTAGAGTTTCTGCTCTACCTTACCCACAGATAACACATGCTG
TTTCTACTTGTAATGTAAAGTCTTTAAATAAACTATTACAGATACTTAAAAA

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FIGURE 1407

MLFIFNFLFSPLPTPALICILTFGAAIFLWLITRQPVLPLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAK
TMYEVFORGLAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYSKSPDQFVGIFAQNRPEWIISEL
ACYTYSMAVAVPLYDTLGPEAIVHIVNKADIAMVICDTPOKALVLIGNVEKGFTPSLKVIIILMDPFDDDLKQGEK
SGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFKLCVEHAYEPTDDV
AISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMTLKP TLFPVPRLLNRIYDKVQNEAKTPLKKFLL
KLAVSSKFELQKGIIRHDSFWDKLIFAKIQDSLGRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTG
GCTFTLPGDWTSGHVGVPACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDSGWLHTGD
IGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVQLQIFVHGESLRSSLVGVVVPD TDVLP SFAAKL
GVKGSFEELCQNVVREAILEDLQKIGKESGLKTFEQVKAIFLHPEPFSIENGLLTPTLKA KRGE LSKYFR TQID
SLYEHIQD

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FIGURE 1408

GCGGCAATCATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACCTGGAGGAGGGCAGCCCC
GGCAGCGGCACCTACACCCGCCACGGCTACATCTTTTCGTGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAAT
GGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATTGTAACC
TGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGAAC
TCTTTTCGAGGAACCTATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGAAATTTATAAGAGTTTC
CGCCAGGTGACATTGTCTTGGCCAAAGTGATCTCCTTAGGTGATGCACAGTCCAACCTACCTGCTAACCCCGCC
GAGAACGAGCTGGGAGTGGTGGTAGCCACAGTGAGTCAGGTATCCAGATGGTTCCCATCAGCTGGTGTGAGATG
CAGTGCCCTAAGACCCACACTAAAGAATTCCGGAAAGTAGCCCGAGTACAACCCGAATTCTTGACAGCTTAAGAA
GCCACTTTTTACCCTATGGAAGGGGGTAAGCTGTTCTGAGTATAACACCAAGATGCTGCTGTCTTTATTCAAAC
ACCTGGCGTCGCCAACAGCCACTTCCAGAAAAATCTTCCAGTTTACGCTGTAGATGGAACATGTTTCTGTGAAC
CTATCAGTGGATTTCATTCTCTTGAGTAATAAATCTTATCTTTCAAGGCACCAACAAACAAAACCTGTGATATTG
GAAATAGCCTATCCCTCCTGACAGTCCCTATAAATACATATTTTTGCTATGATAAACTTTTTACTAAAAGGA
TGTTATAGAGTCTGTTGTCTTAAGCAGAGAAAGACATCTAAATGGTGTGAGGACATTTAGTACTTCTGCTTATT
GAGTACTTACTGTGCTAGGCACTGAGTCAGGTGCTTTACATACGTCCCTTCATTTAGGTACATTGTGATTTAAT
GAAAATTTGAGGACACGTGGTGATACAGATAGCATGTGAGGCAGGCATGGTGGCTCATGTTGTAAATCCCAGCA
CTTTGGGAAGGCCGAGTTGGTTTTGAACTCCTGGCCTCCCAAGGTGCTGATAGTACAGGCATGAACCACTGTGCT
TGGCCTTTTTAAAAATTTGTAGAGATGCAGTCTTACTATGTTGCCAGGCTGTCTCAAACCTCTGGCCTCAAGTGG
TCCTCCTGCCTTGGCCTCCCAAATGTTGCAATTACAGGCATGAGCACTGTGCTTGGCAAGCTAAGGAGGATTTT
CACTAGCAGTTTCAATTTGACAATACCAATCTAGAGGTGAGCTTCTCAATCTTAAATGTGTATCCAAATCACCTGG
GGAATAGATGCCGATTCTGAAACAGGTCTGGAGTGAGACCTGAGGTTCTGCATGTATAACAAGCTCCCAGGGGGT
CCAGCTGTCA

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FIGURE 1409

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAIVTCKV
SSINSRFAKVHILYVGSMPKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQSNYLLTTAENE
LGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT

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FIGURE 1410

GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTCCGCGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCTGGGAGGCGGCGCCGAGGTGGGGCGCCGCTGGGGCCGGCCCGCACGGGCTTCA
TCTGAGGGCGCACGGCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGT
TGAAACCATTGATAGATTTAATACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGAATGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTCAGTCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAAAAATATG
GAATGTCTCTACGAAGAAAACTGTTTTAAGCCACAGACAATTAAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACT
TATATCTGGCCTACATGCAAGCATTAAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACACATTACAGAATTTCAACAGCGATTGATGGAATTTGACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAACTTGTATTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAATAAAATTCAGGATGAGGAAAAACAAATGTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTTCTTTGCAATTTTGATGAGAATTCATTTTTTGTGGGATAAAAAAGAAGCACACAACTAAA
GGAGGACTTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCTGAGAAATGATAGCAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCATCTAACAGACAAGAAATAGTATCATTATTCAACGCATTTGGAAGAA
TTCTACAAGTGTGAAGAATTAGAAAACTTCAGGAACCTGTTACAGAATATTCATT**TAAG**AAAAACAAGCTGATAT
GTGCCGTGTTTCTGGACAATGGAGGCGAAAGAGTGAATTTCAATCAAAGGCATAATAGCAATGACAGTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAGTAAACACATTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTTAAAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAACAGCGTTTTATG
TAATAATATGTAATATAAATAAACTATGGTAAATGTGACAAGCATTTAATAGGAAATGCTAAGGAGGCCTCAT
AAATGACCCATAATTACCAACGTAGAATTTTTCAGTACATTTAGGGTTGCTGGATTTAGCAAATAAAAAATAAGA
TTGCCAGTTAGATTTGAATTCAGATAAACAATTAGTTTTTAAATATTTTACATGGAATATTGGAAAAACTT
ATACTAAAAAATTATTTGTTTGAATTCACATTTAACTGGGAGTCTTGATTTTATCTGGCAATCCTAAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTGTGTGTAGAAACGTACAA
TAACAACCTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTGAATAGATTATATATTTATCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCATAATTGTTTCATACGTGCTTTATCTTTTCATGCTTTCTCTGTA
CACACACACACACACACAAATTTTCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCTTAAACCTTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACCTCCACAAATCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAACTTTCAAGTTCCAATCTAAAGTTCTTTTTGAGTTTGTGTCGGC
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAATAATTTTTTTAGAGACAAGGTTTTGC
TGTGTTGCCCAAGCTGGAACCTGAACGACTGGGCTGAAGTGATCTCCACCTCAGCCTCCCAAGTAGCTGGGAA
TACAGGTGCTGCCACCATACCAGTTTCATTTTTGTTTTTATACCCGAAGTTCATTTCTTTGCTCCCTAAA
ACTGAACTGTAATTTTGGGAGGTTTCATTAGTGAAGCTCTTCATTTATAAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCACATGGTAATTGTAGAGAAAAAGAAGCTATATACCTCAAATCGTGCCCTCTTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTATACTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAA

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FIGURE 1411

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAARCFQVSGYLDDCTCDVETIDRFNNYRLFPRLOKLLES DYFR
YYKVNLRPCPFWNDISQCRRDCAVKPCQSDEVPDGIKSASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLNPERYTGYKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGQ
GTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLFFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRI
STSVKELENFRNLLQNIH

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FIGURE 1412

CTGTTCCAAACCACGTGGACGCGTCTGGGCTGCTGGAGGCAGCCCGAGCCGCCGCCGTCGGTGTGCGCGCCACCA
CCACCATCGGAGTCACGAGTCCCGCGTCTGTCCGAAGTCGCCGCTCTCGGGCTGCTCACGTCTCTTCGGAGAGCG
CGCACATGCGGACTCAGGCGTACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCTGTCTA
CCCTGAGCGGGCGCCCCGTCAAAATCCGAAAGATTGGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTGAAG
CCAGCTTCATAAGGCTATTGGACAAAATAACGAATGTTCTCGAATTGAAATAAACCAACAGGAACAACCTTAT
ATTATCAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACC
TGGAGAGTCTTCTTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATC
AGGTTGACCCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTGAAACAATTTGGGATTGATGGTGAAT
CATTGAACTGAATATTGTGCGACGGGGAATGCCTCCCGAGGAGGAGGCGAAGTGGTTTTCTCATGTCCTGTGA
GGAAGGTCTTGAAGCCCATTCAACTCACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTAC
GTGTGTACCTCAGATGGCGAACCAGGATTGTGGATTCTGCGAGGAGCATCCTCAACAAGTTCATACCTGATATCT
ATATTTACACAGATCACATGAAAGGAGTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGA
CCACCAGTGGCACCTTCCTCAGTGTGAAGTCTGAGGCTTCAACCCCGAGGGCCAGGGAGCAGCAGTACTTCCAGAGG
ACCTTGGCAGGAAGTGTGCCCCGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAA
GCCTGGCGCTACTACTCATGACCCTTGGACAGCAGGATGTTTCCAAAGTCTGCTAGGCCCTCTCTCTCCCTACA
CGATAGAATTTTTGCGGCATTGGAAGAGCTTTTTCCAGATTATGTTTAAATTTGAAACCAAGCCATGTGGTGAAG
AACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTTCTCAACCTTAGCAAGACCCTCAAGT
GATAACCATCACAAGATAAGGCCCCAGTGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGT
CCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATATCAATATACAAATAAAG
ACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCAGGAGGGGCCAGTCACCAT
GAGAGCTCCCTTGCCCTTACCTGGAGGAAGATGTGCCTTCAGGCCACAGTCGTGCTGCTAGAACAGTCTCATAGC
TGCAGTTCAGCTGTGCTTCCCTCAGCCTACTATCATAGGCTTCCTCAGCCCTCTGTATATGGCTGTTTTGCAAAC
CTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTGTAGGGATTAAATG
AGATAATATGAGTGGCAGCTCTTCATGAGTCTGTCAGTGTAAAGCAAATGTCAGAAATGGTGTATTAGACTATT
TATCTTTGATCTTCTGAATGATTGCTGTGATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATG
TGAGGGATGGATGGCTGCGGGGCTCCAAGTAAGTTATTGGGATGTTTTTATATTCCAGGTGTGCTGTACATTCT
TATTTTATTTTACAAACAGCTCTGTGATGTAAATGCTATCTCCATGAGAAAATTCATAAAGGGTGTGTGTTCCT
TTGAAATGTATAATGTAAAGACATTAAATCTCCTCATTT

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FIGURE 1413

MATQAYSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITNGSRIEINQGTTLYY
QPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVINDQVDPVSVLKDATALPLLKQFGIDGESF
ELNIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKRIRGMAYSVRVSPQMANRIVDSARSILNKFIPDIYI
YTDHMKGVNSGKSPGFGLSLVAETTSGLTFLSAELASNPQQGGAAVLPEDLGRNCARLLLEEIYRGGCVDSTNQSL
ALLMTLGQQDVSKVLLGPLSPYTIIEFLRHLKSFFQIMFKIETKPCGEELKGGDKVLMTCVGIGFSNLSKTLK

CTACAGATACTGCCGTGTGAGAGTACCTGAGGGGCTCTTGAAAGACCTACTGCCAGGACCAGTGACCCCTGGTGAAT
GGAACGCTCGGAGGAGCTCAACAAGGACCTAAACCCCTTTACGCTCTTGTAGGCATTTCGATTCTCTGATCATGC
TTTTATGCAAGACTTTGGCTCAGATGTTTTGAGGGTCCGCTTGCTCTCACTAGTGCCAACCTCAGCTCCCAGGCCAG
TTCTCTGAATGTCGAGGAGTTCCAGGATCTCTGGCCTCAGTTGTCTTGGTTATTGATGGGGGACAAATTGGGGG
TGGCCAGAGCCCCGAGTGTGCGCTTGGCTCAACTGTGGTTGATTTGTCTGTGCCCGGAAAGTTTGGCATCATTG
TCCAGGCTGTGCCCTGGAAAGTACTACAGCCATCCTCCAACAGAAGTACGGACTGCTCCCCTCACATGCGTCTTA
CCTGTGAAGTCTGGGAAGCAGGAAGGCCCAAGACCTGGTGTGCTGGATACTATGTGTCTGTCCACTGACGACTGTC
AAGGCCTCATTTCGAGAGGCCACCGGAGCTAGGGCACTAGCCTGACTTTTAAAGCAGTGTGTCTTTCTGAGCACT
GTAGACCAAGCCCTTGGAGCTGCTGGTTTAGCCTTGACCTGGGGAAAGGATGTATTTATTTGTATTTTCATATA
CTACGCAAAAAGCTGAATGGAAAAGTTAAGAACATTCTAGGTGGCCTTATTCTAATAAGTTTCTTCTGTCTGTTT
TGTTTTCAATTGAAAAGTAATTAATAACAGATTTAGAATCTAGTGAGAGCCTCCTCTCTGGTGGGTGGTGGCA
TTTAAGGTTCAAACCAGCCAGAAGTGCTGGTGCTGTTTTAAAAAGTCTCAGGTGGCTGCGTGTGGTGGCTCATGCC
TGTAATCCCAACATTCTGGGAGGCCAGGCCGGGAGAAGTGTCTGAGCCCAGGAGTTCAGAATCAGCCTGGGCAAC
ATAGCAATACTCCGTCTCATAAAAATTAATAAAATAAAAAGTCTCAGGTGACCAAGGCTCCTGAAGCTAGAACCA
GGTTTGATAAAGATTGAAGAGCCACAGGCCACTCTTCCCTCTGAGCCATTGGGCCTAGTGGTGTATGTATTGT
AATTGCTCGCAGGGAGAGCAGTCTTTTTTGGTGTAATAGTGGGATGTCTGCTTAGTTGGCAGGGGTTTCAGTCCAA
TGGAAGAAATATTGGGAAATAAACCTCCACTATCCTTTATAGCCAGGGACTTTTTTCTTATTTATTCATAAAATAA
ATTATAGTTAATTATACCCATAACACCTTTATTTAAATCCAGTGTTCTCCGCAGCCTTTTGTCTATTTATATGTG
TACCAAGTGTTAAACATAATTATTATTGGGCATTGAACTTTGTTTTCTTTAAAGAAATGCTGCTATTAACAT
ATTTGTAAATGGAAAAA

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FIGURE 1415

MERSEELNKDLNPF TPLVGIRIPDHAFMQDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECR LGSTVVDLSVPGKFGIIRPGCALESTTAILQQKYGLLP SHASYL

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FIGURE 1416

CAGATAGGCGACACGCGGGCGCTGAGGCGGGAATGGCTGCTGTACTGCAGCGCGTCGAGCGGCTGTCCAATC
GAGTCGTGCGTGTGTTGGGCTGTAACCCGGGTCCCATGACCCTCCAAGGCACCAACACCTACCTAGTGGGGACCG
GCCCCAGGAGAATCCTCATTGACACTGGAGAACCAGCAATTCCAGAATACATCAGCTGTTTAAAGCAGGCTCTAA
CTGAATTTAACACAGCAATCCAGGAAATTGTAGTACTCACTGGCACCGAGATCATTCTGGAGGCATAGGAGATA
TTTGTAAGCATCAATAATGACACTACCTATTGCATTAAAAAACTCCACGGAATCCTCAGAGAGAAGAAATTA
TAGGAAATGGAGAGCAACAATATGTTTATCTGAAAGATGGAGATGTGATTAAGACTGAGGGAGCCACTCTAAGAG
TTCTATATACCCCTGGCCACACTGATGATCACATGGCTCTACTCTTAGAAGAGGAAAATGCTATCTTTTCTGGAG
ATTGCATCCTAGGGGAAGGAACAACGGTATTTGAAGACCTCTATGATTATATGAACCTTTTAAAGAGTTATTGA
AAATCAAAGCTGATATTATATATCCAGGACATGGCCAGTAATTCATAATGCTGAAGCTAAAATTCAACAATACA
TTTCTCACAGAAATATTCGAGAGCAGCAAATTCCTTACATTATTTCTGAGAACTTTGAGAAATCATTTACAGTAA
TGGAGCTTGTAAGAAATTTTACAAGAATACTCCTGAGAATTTACATGAAATGGCTAAACATAATCTCTTACTTC
ATTTGAAAAAACTAGAAAAAGAAGGAAAAATTTTAGCAACACAGATCCTGACAAGAAATGGAAAGCTCATCTTT
AGTTTCAGATTAAAGAAAGCTTTGTTTTATTTTGCTTTGAGAGAATGGTATGTTTTCTTAACTATAGGTTATTTT
ATAGAGAATATAAAAGTATAAAACATTAAAAATAACCCTAGATATACTTTAAATAATGTTATATTTATGCTAAA
ATATGTAAATTACACTATAACAACCATATGATAGGTTATTTCTCTAACCTTGTCTTCTAACGTTTTACCAAAAT
CATAATCTAATAGTTTATCAGTTTTCAATAGATTAAATAAAATGATTACTTTAAAAATAATAAAATTTATCTAAT
TTAAAGTTGATATTATTTTGGCCGTTAGTTATCTATTACTAGTGATCAGTTATACTGTTTTCTATAGCTACTTT
ATTTAACAGCACAGATTTCTATGCACCTTTACTCTTTCTCAACCCTTGTCTCTATCTGTACATAATTGCTTTGT
CTTGATGTTTTCTATCAACTATATCATGACTATCTATTGGTTCCATAACTCTGTATCATGTGTATTTTCTTATTCT
GGTATACCACAAATGATTCATGCAAATGAATTTTGGTGATTGAAAAATATTAAATTCCCAATTTAAAGTATTAT
ATGATA

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FIGURE 1417

MAAVLQRVERLSNRVVRVLGCNPGPMTLQGTNTYLVGTGPRRILIDTGEPAPIPEYISCLKQALTEFNNTAIQEIVV
THWHRDHSGGIGDICKSINNDTTYCIKKLPRNPQREEIIGNGEQQYVYLKGDVVIKTEGATLRVLYTPGHTDDHM
ALLLEEENAI FSGDCILGEGTTVFEDLYDYMNSLKELLKIKADI IYPGHGPVIHNAEAKIQQYISHRNIREQQIL
TLFRENFEKSFTVMELVKIIYKNTPENLHEMAKHNL LHLKKLEKEGKIFSNTDPDKKWK AHL

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FIGURE 1418GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTCA**ATG**

GAGGGCTCAGGGGAGCAGCCGGGCCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAGTAACTTTGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAAGTGCATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAATAGTACAAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAGAAAGAGAA
AAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACACTAGCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAAATGATTGTGATGGAACGTGTGCAGGCTTGGTGTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCCCTGGAGGAGACCTGTTTCGGGCGACAAACAGCATGTTTTGGATTTCCTCAATCTTTTCTC
AGTGGTCTTTTATGAATTCCTCTCAACAAAGTGGACAGTCTTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCTTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCTGCTGCTGCTTTTGGTGGACTTTGTGGCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAACTGCGGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGGT
TATCTTCTCTCCGGCTTACCCTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAATGCCAGAGTCTGACTCT**TA**ACCCCTTTTGA
GAATTGCTCTGAATTTTGTCTCAGGCATTATACAGTTAGTAATTAACCTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCCTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAACCTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGAATAATACAACTAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCTCTGTTCAATCCGTTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTCTGAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTAATAGTTGAC
AACCTGGGAAAGTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAGTGACTAGAATTTTGTGTACTATTCAATTAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1419

MEGSGEQPGPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEIIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQQRKRHLEAAALLSERNADGLIVA
SRFHPTPLLLSLLDVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEPAKKRKCPESDS

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FIGURE 1420

GGCAGTTAGTCGGCTGCAATGGCGCCGGTGAGGCGGTCCGCGAAGTGGCGGCCTGGTGGTATTGAGGCGCGTGGT
GAAGGGGTTTCCACTGTCGGGTACAGGAATAAGAAATGTGAGACAGAAGACATGGCGGCCTAACCAACCGCAAGCC
TTCGTGGGGAGCGTTCGCGAGGGACAAGGCTTTGCTTTTCGAAGAAAAGTGAATAACAGCAAAGTTACAAGAAA
TTGCTACGGAAGGAAAAGAAGGCTCAAACGTCACCTGGAATCTCAATTCACAGATCGATACCCAGATAATCTGAAA
CATCTCTATTTAGCTGAAGAGGAAAGACATAGGAAGCAAGCAAGAAAAGTCGACCATCCTTTGTGAGAACAAGTT
CACCAGCCGTTGCTTGAAGAACAGTGTAGCATTGACGAGCCTTTATTTGAAGATCAGTGTAGCTTTGACCAGCCT
CAGCCAGAAGAACAATGTATTAAACAGTAACTCCTTTACAATTTCAAAGAAAAATAAAAAGAAAACATCAAAT
CAAAAAGCACAGAAGAATATGAACAGATACAAGCCAAACGTGCTGCTAAGAAAACAAGAATTCGAGAGGAGAAAA
CAGGAGAGAGAAGAAGCCCAAGGCAGTACAAAAAGAGAAAATGGAAGTGTTTAAATACTGAACAAAAAGACT
AAAAAGGGCCAACCAAACCTTGAATGTACAAATGGAGTACCTTCTTCAAAAAATACAAGAAAAATGTTAAACATTT
TGTTCTTACAGGTTAAATATCTGCTGCCTATTAGGTTCTTCTGTGACATGTGCCTCCCAGCAGTGAACATAATT
TGTCGACATAAACTGGATTGCTAAACTATGCTAAATATAAGATGTTTACATATTTTTATTATGGTAAAAATTTT
CTAAATATGTTCTACATGTTTCTTATTTATTTGCCTCTGAAGGAAGGTTGGCCTGAAGAAGTGAAGAAGCTCTT
ATTTTGCAAGACAGGCCCAAGCATGTAATACTTTTGTACCATATGAGATTTATATGAAATAAATTTTTTAAAAAT
AAGGAAAAAAAAAAAA

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FIGURE 1421

MAPVRRSAKWRPGGIEARGEVSTVGYRNKNVRQKTWRPNHPQAFVGSVREGQGFAFRRLKIQQSYKKLLRKEK
KAQTSLESQFTDRYPDNLKHLYLAEERHRKQARKVDHPLSEQVHQPLLEEQCSIDEPLFEDQCSFDQPQPEEQC
IKTVNSFTISKKNKKKTSNQKAQEYEQIQAKRAAKQEFERRKQEREEAQRQYKKKKMEVFKILNKTKKGQPN
LNVQMEYLLQKIQEKC

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FIGURE 1422

AGCTTCGCGCTAGTGCTGTTTTTTTTTTTTTTTTTTTTTTAGCAATGGCGGTTCCCGGCGTGGGGCTCTTGACCCG
TTTGAACCTGTGTGCCCCGAGAAGAACTCGAGTCCAGCGGCCTATCGTCAGGCTTTTGAGTTGCCAGGAACTGT
GGCCAAAGACCTTAGGAGAGACGAGCAGCCTTCAGGGAGCGTGGAGACAGGCTTTGAAGACAAGATTCCCAAAAG
GAGATTCTCTGAGATGCAAAATGAAAGACGAGAACAGGCACAGCGGACTGTTTAATACATTGCCAGAGAAAAAT
CAGTGA AAAACAAGTTTCTTAAATATTTATCCCAATTTGGACCTATTAATAATCATTCTTCTATGAAAGCTTTGG
TCTCTATGCTGTCTGATAGATTTTGGCAAAAGGAAAGCATAGGTTCACTGCAGAATGGGACTCATACTCCAAGCAC
GGCCATGGAGACTGCAATTCATTTCAGATCACGTTTCTCAATCTGAAGTGAAAAACCAGACTTCTGAACGGTC
ACGCGTACGGTCAAGTAATCAGTTGCCACGTTCAAACAAGCAGCTTTTTGAATTACTTTGTATGCAGAAAGTAT
AGACGATCAGCTGAACACTCTCTTGAAGGAGTTCCAGTAACAGAGGAGAACACTAAGCTCCGATATCTCACCTG
TTCTCTTATTGAAGACATGGCCGCGCGTATTTTCCAGACTGCATAGTCAGACCTTTGGCTCCTCAGTCAACAC
TTTTGGGAAGTTAGGATGTGATTTGGACATGTTTTTGGATCTAGATGAAACCAGAAACCTCAGCGCTCACAAGAT
CTCAGGAAATTTCTGATGGAATTTCAAGTGAAAAATGTTCTCTCAGAAAGAATTGCAACTCAGAAGATCCTGTC
TGTTGTTAGGAGAGTGCCCTTGACCCTTTGGCCCTGGCTGTGGGTGTGCAAAAAATATTAAATGCCCGGTGTCC
GCTCGTGAGGTTCTCACACCAGGCTCCGATTTTCAGTGTGATTTGACTACGAACAATAGGATTGCCTTGACAAG
TTCCGAACCTCCTTTATATATATGTTGCCCTAGACTCAAGAGTGAGAGCCTTGGTGTTCAGTGTACGGTGTGGGC
TCGAGCACATTCTACTAACAAGTAGTATTTCTGGTGCAIGGATTACAAATTTCTCCCTTACAATGATGGTCATCTT
TTTTCTCCAGAGAAGATCACCCCTATTCTTCCAACACTAGATTCTTTAAAAACCTTAGCAGATGCAGAAGATAA
ATGTGTAATAGAAAGGCAACAACCTGCACATTTGTTTCGTGACTTGAGTAGAATTAAACCTTCACAGAACACAGAAAC
ATTAGAATTACTACTGAAGGAATTTTTTGGATTTTTTGGCAATTTTGCTTTTCGATAAAAAATTCATAAATATTG
ACAGGGAAGGGAGCAAAACAACCTGATTCTTCTCTCTGTACATTGAGAAATCCATTTGAACTTCTCTCAACAT
AAGCAAAAATGTAAGTCAAAGCCAGCTGCAAAAATTTGTAGATTTGGCCCGAGAAAGTGCTTTGATTTTACAACA
GGAAGATACAGATCGACCTTCCATATCAAGTAATCGGCCCTGGGGGCTGGTATCCCTATTGCTACCATCTGCTCC
AAACAGAAAGTCTTTTACCAAGAAGAAAAGCAATAAGTTTGCAATTGAAACAGCCAAAAACTTGCTAGAATCTTT
AAAAGGTAACAGAACAGAAAAATTTCAAAAAACCAGTGGGAAGAGAACAATTAGTACTCAGACATGATGGCTGCT
ACATTGTGTAAAGAACTGGGCTTAGCCTATCAAATGGTCTGTGGACTTACTGGAAAACTGATTTGAACTTTT
ACAGATCTCAGCTTTTCTATCTGATGTCACTTTTCATGATCTTCTCATTGGCCCCCTTAACCTGGTCTGAAGTTCTG
GGATGTTTTTCACTTTGATCAGTCTGATACTCAGTGGCACTTTATTAACATCAGCTGTGGAGTGTGGCGGTGCA
CACCTGTAGTCCCAGCTGCTCAGGAGGCTGAGGCAGGAGGATCTCTTGAGCCCAGGATTTTGAATCCATCGTGGA
CAACATAGCAAGATTCCATCTCTAAAAAAATGAAATAAACATAAGCCACAAGGAATGGGTGAAAGATTATTGT
AATGTGCTTTAACTAAATAGGTAAATATACTAAACAAATGCTAAACTCAGTTTTAGGATGAAACCATTGTTGAT
ATCCACATCAGTCCCTGTTTAGAAAAATTTAAATGACTTTTAGTTATGTACAGTACGTTGGCAATGAATACAT
TAAGCTTCAAAATTTGGTAGTCTCTGAATATGTATTTGTATTTTCAAGCGAAGTTCTCTTATTCACATAT
AAATTAAGTGGGTGGTACTGATATCAAAAAATGTTTATGTTTTTAGAACAGACATTCAGTCACTGCATTCTT
AGGTATTCAAAACCAATATGATGACATCAATAGATTGCATTTTAAAAATATTGTTGATTTTTCTATTTTCAA
AATAAAATTCTGTTTCTAACT

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FIGURE 1423

MAVPGVGLLTRNLNCARRRTRVQRPIVRLLSCP GTVAKDLRRDEQPSGSVETGFEDKIPKRRFSEMQRERREQAQ
RTVLIHCPEKISENKFLKYLSQFGPINNHFFYESFGLYAVVEFCQKESIGSLQNGTHTPSTAMETAIPFRSRFFN
LKLKNQTSERSRVRSSNQLPRSNKQLFELLCYAESIDDLNLTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDC
IVRPFSSVNTFGKLGCDLDMFLDLDETRNL SAHKISGNFLMEFQVKNVPSERIATQKILSVLGECLDHFGPGCV
GVQKILNARCPLVRFHQASGFQCDLTNNRIALTSSELYIYGALDSRVRALVFSVRCWARAHS LTSSIPGAWI
TNFSLTMMVIFFLQRRSPPI LPTLDSLKTLADAEDKCVIEGNNCTFVRDL SRIKPSQNTETLELLLKEFFEYFGN
FAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNVQS QQLQKFVDLARESALILQQEDTDRPSSISNRPW
GLVSLLLP SAPNRKSFTKKKSNKFAIETAKNLLES LKGNRTENFTKTSGKRTISTQT

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FIGURE 1424

TTTGCTAAAGCCACCATAAAGGAAATAGTTGTGTGGCCCATGTTGAGGCCAGACATCTTTACTGGTTTAAGGGGA
CCCCCTAAAGGAATTTTGCTCTTTGGTCCTCCTGGGACTGGTAAAACTCTAATTGGCAAGTGCATTGCTAGTCAG
TCTGGGGCAACATTCTTTAGCATCTCTGCTTCATCCTTAACTTCTAAATGGGTAGGTGAGGGGGAGAAAAATGGTC
CGTGCATTGTTTGCTGTTGCAAGGTGTCAGCAACCAGCTGTGATATTTATTGACGAAATTGATTCCTTGTATCT
CAACGGGGAGATGGTGAGCATGAATCTTCTAGAAGGATAAAAAACAGAAATTTTATGTTCAATTAGATGGAGCAACA
ACATCTTCTGAAGATCGTATCCTTAGTGGTGGGAGCAACAAATCGGCCACAAGAAATTGATGAGGCTGCCCCGAGA
AGATTGGTGAAAAGGCTTTATATTCCTCCAGAGCTTCAGCCAGGAAACAGATAGTAATTAATCTAATGTCC
AAAGAGCAGTGTTCCTCAGTGAAGAAGAAATTGAACAGATTGTACAGCAGTCTGATGCGTTTTTCAGGAGCAGAC
ATGACACAGCTTTGACAGGGAGGCTTCTCTTGGTCCTATTTCGCAGTTTACAAACTGCTGACATTGCTACCATAACA
CCGGATCAAGTTGACCCATAGCTTACATTGATTTTAAAAATGCTTTTAGAAGTGTGCGACCTAGTGTCTTCCA
AAAGATTTAGAGCTTTATGAAAACCTGGAACAAACTTTTGGTTGTGGAAAGTAAGTGGGATACTTGGAAATCAAGG
CATCTCTGTAGTACAGTCTTCTTTATTTTTTTAGCATAGAAAGTTGGGGATGTGTTAATTGTATTTTTAAGAATAT
ATTCTAAGTTCTGTACTTCAAATAATAGCACAGATTTTACATCTGATTGACATAGTGTATGTTAATGTAAGTTTT
GCTTTCCAGTGATTACCTGATACGTAAGCCTATTTGAACAAAGTGAGAATGAACTTTTGTTTCTAAGAAGTCTTT
ATCTTGAAGCTATATAACATGAAAAGTGAGCTCAAATTTTTTTTAGTTGAAGATTACATATAAAGTTGTGTCTGA
TTAATATTTCATCTTTTATTGAAGAAAGTGCCCTTCGATGGCCACATAATTCTTAATGTCAGCTAGTATAATGGTT
TACATTTGGACAAAGTATTGCTTAGTGTATTTAAGTAGATTTAAGATCTCAAAGCTAAAGTGCCAATTTTTACT
TTCTTCAGCCAATTTGTTACCTCTTTTATGGTTTTTAAATTTTTATCAGGACTAACATTTTCAGAAATAGCAAGGT
GTGATCTAGTATTAGATTCACAGAACTGAAAGGTTAATTAAGAATGTTGGTTATTTTCACGGGAGCGTGTGATAT
TTAACATTAATATTTTATTGACACTACAGCCTGTAATACTGCTCTCTTTCAAAAACAAGTTTTCAGATTTTTAT
AACAGACCCATTTTGTTTTATGAAACATGTTTCATTACAGAAACATGAGAAAATAGAGATAAGTAAAAAGAATAAA
AGTCACTATTATCCTACCACTTTGCGGGACACACTATTAATATTTAAGCATAGATTCTTCCAGATGTTTTGTTTT
ATACAGCAGTAGGATTGTGTAATGTATTCTCTCTTGTAGCCTATTCTTCAAAGCGTATCTTCACTTTCCATGTTA
ACATAAATGTCCTTTTATGATTGTCTAGGATTCCATGGATGGATGGAATATAATTGAGTCATCTGGTAGAGCGCA
TATAGGACAGGACGCTAGGTTGTTTTATCTTTTGTATTGTAAAGGAACATGTGGGATGCATTTGGTGATCTTT
TTAAAAATGTATAAATTTCTTGAGTAATCCTGGATTAAAGAATATGCACTTCTT

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FIGURE 1425

MLRPDIFTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGECEKMVRALFAVARCQOPA
VIFIDEIDSLLSQRGDGEHSSRRRIKTEFLVQLDGATTSSDRILVVGATNRPQEIDEAARRRLVKRLYIPLPEA
SARKQIVINLMSKEQCCLSEEEIEQIVQQSDAFSGADMTQLCREASLGPIRSLQTADIATITPDQVRPIAYIDFE
NAFRTVRPSVSPKDLELYENWNKTFGCGK

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FIGURE 1426

CGTGGTTTCCGGAACCTTCGCCGCGTCTCTGGGCTTTTGCTCTGTCTCAGGCTGGTGGCGTTTGGTGTCTTCGTTT
GTTATGGCCGCTGCTGTCTGCTATGGAGACAGATGATGCTGGAAATCGACTTCGGTTTCAGTTGGAGTTGGAATTT
GTGCAATGTTTAGCCAACCCAAATTACCTTAATTTTCTTGCCCAAAGAGGTTACTTCAAAGACAAAGCTTTTGTT
AATTATCTTAAATACTTGCTTTACTGGAAAGACCCAGAATATGCCAAGTATCTAAAGTACCCTCAGTGTTTACAC
ATGTTAGAGCTGCTCCAATATGAACACTTCCGAAAGGAGCTGGTGAATGCTCAGTGTCGAAATTTATTGATGAA
CAGCAGATTCTACATTGGCAGCACTATTCCCGGAAGCGGATGCGCCTTCAGCAAGCCTTGGCAGAGCAGCAACAG
CAAAATAACACATCGGGAAATGAAAACTGGATACAAACGAGGCACCTAATACATGTATATAATGTATTTCTTT
TGTACAGTGAAGACAAAAAATGAAAACTCTTCCTATCTACCTTTATTATGGTAGCCCTAGAACCTTTAGTGT
GCTTTTTCATCCAACCTTTTATTGTTAATAGACTATTCTGTAAACCTGAATTGTTCTTTGATTTCCTGTGGA
TTTGTAAGGTGTTTTCTTTTTTACGCATTTAGCATAATCAGCTGATTAAAGATGGAAAAGTTAGGTGCTTTAGA
CCAAATAAGGCACTGGGGCATGGGGTAGGGGTGGGCCACCAAGTATACTGAATTCTAAGGCTAGCTGTTCCTGAC
ATATAGTAGGGCAAGACCATCTCCTGGAACCTTACTGTCTCAGATCAACTACTCTACCCTCTACTCTAAGATGT
AGTGAGAGTAGCGGAGTCACTGACCTCTTTAAATCATAGGACAGGAAGTGCATAAAGGTTCTTGAATTCTGCAGG
ACAGGAAATAACTGTATTACCTGCTTTGCAAGGTGGCTTTAAGAATCACTGAATCACTGTGGCCTCACTTGACCT
AGTCATGGCAGGACAACTAGTGGTTAGTTACTAAGTGGACTCTTGACTTTAGAACAACATGAGGAGCCTCAAAT
ACTTGTGTTTCAATTTGGGAAAGCTACCATTGATTGGGAGGTACCACAAACCAGGTGCTATGTTAAGTGCTT

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FIGURE 1427

MAAAVAMETDDAGNRLRFQLELEFVQCLANPNYLNFLAQRGYFKDKAFVNYLKYLKYWKDPEYAKYLYKYPQCLHM
LELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMLQQALAEQQQQNNTSGK

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FIGURE 1428

CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAAA
TCTGTGAGCTCTTTTCCTTATGGGGACCCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGA
GCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATATACCAACCGCACC
TTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCTGCTCATTGGGGAGAACTGTTCCAC
GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCCT
CAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACA
TGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGA
GAGAGTGGAGAGATCAAAGCAATTGGAGAAGTGGATTGCTGTTTATGTCTCTGAGAAATGCCTGCATTGTGACCA
GAGCAAAGCTGAAAAATGAATAACTAACCCCTTTTCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT
TTTTAACCAAAAGGAAGATGGGAAGCCAACTCCATCATGATGGGTGGATTCCAAATGAACCCCTGCGTTAGTTA
CAAAGGAAACCAATGCCACTTTTGTATATAAGACCAGAAGGTAGACTTTCTAAGCATAGATATTTATTGATAACA
TTTCATTGTAAGTGGTGTCTATACACAGAAAACAATTTATTTTTTAAATAATTGTCTTTTCCATAAAAAAGAT
TACTTTCCATTCTTTAGGGGAAAAAACCCCTAAATAGCTTCATGTTTCCATAATCAGTACTTTATATTTATAAA
TGTATTTATTATTATTATAAGACTGCATTTTATTTATATCATTTTATTAATAAGGATTTATTTATAGAAACATCA
TTCGATATTGCTACTTGAGTGTAAGGCTAATATTGATATTTATGACAATAATTATAGAGCTATAACATGTTTATT
TGACCTCAATAAACACTTGGATATCCCCAAAAAAAAAAAAAAAAA

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FIGURE 1429

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1430

CTCGAAAAGGCCCATGTGGGCAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTT
ACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGACCGCCCTTTCCC
AGCTGCACTCGCCCTGTGGACAGCCCCGACACACCATTCTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGC
TATGCCGAATGCAGCCAAAATTCCTTTTACAATTTGTGATGCCTTACCGATTGATCTTAATCCTGTATTTAAA
GTTTTCTAACTGCCTTATACTGTGTTCTCTTTTTGGGGGAGCTTAAGTCTTGTGCTCCCTGTCTGCTGCA
CCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCC
TGCTCCAGGGCTGTGCGGCCAGCCCCGAGCCACGTGGCGCGCTCTGTCTGATCAGCACCTTCCTG
GAGGACGGCATCCGTATGTGTTCCAGTGGAGCGAGCAGCGCACTACATCGACACCACCTGGAAGTGGCGCTAC
CTGCTGGCCTCGTCCCTTCGTCTTCTCAACTTGTCTGGGACAGCTGACTGGCTGCGTCTGTGTTGAGCAGGAAC
TTCTGTCAGTACGCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGGAC
TTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCTGTGCTGCTCCTAGCAGAATCCCGTTCTGAAGG
AAGAGCATGTTTGGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTC
TTGCTGGTCTGATGTTTATGACCCCTCCTTCACTTTGACGCGAGCTTCTTTTCTATTGTCCAGAACATCGTGGGC
ACAGCTCTGATGATTTTATGAGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGTGGCTCTTT
GCCATCAACGTATATTTCAACGCTTCTGGACCATTCAGTCTACAAGCCCATGCATGACTTCTGAAATACGAC
TTCTTCCAGACCATGTGCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGAT
GAGAAGAAGAAGGAGTGGTTAACAGTCACAGATCCCTACCTGCTGGCTAAGACCCGTGGCCGTCAAGGACTGGTT
CGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCTTCCCTTGGTAAAGGCACAGATGT
TTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGA
CCCTTCAGTGACAGCCAGCCTGGCAGCTGGAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTGGC
TGTGGCATCTCAGTCCATATTTTGAAGTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAG
ACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTATAGCGGAACTACTAAATT
ATTTTGGGTGGTTTCAAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGTTG
TTTCTGCCCCGATTGTATTTTATAGGAATAGTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAG
GGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAAGTGTTTTAT
TGGGTAACACCCCTGGGAGTTTTAGTAGCTTGAAGCAAGGTGGAGGGGCAAGAAGTCTTGGGGAAGCTGCTGGTC
TGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCAC
CCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGAGAGCCGAGCCGCTGTGGGCAGGGGGTGTGGCAGG
AGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAA
GCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCAC
TTTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGTATGCCGAATGCAGCCAAAATTCCTTTTTACAATTTG
TGATGCCTTACCGATTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTCTCTTTTT
GGGGGAGCTTAACTGCTTGTGCTCCCTGTGCTGCAACATAGTAAATGCCACAAGGGTAGTCGAACACCTCTC
TGGCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGCGGCCAGCCCCGAGCCTGC
CTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGA
AGTCACCTACCTTTTAAACACAGCCGAAGTAGTCCCAACGCGTTTGCAAATATTCCCTGGTAGCCTACTTCCTT
ACCCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCCTGTGATCATTCAAGTGCTC
ACTGCATGAAGACTGGCTTGTCTCAGTGTTCAACTCACCAGGGCTGTCTTGGTCCACACCTCGCTCCCTGT
TAGTGCCGTATGACAGCCCCATCAAATGACCTTGGCCAAGTCACGTTTCTCTGTGGTCAAGGTTGGTGGCTG
ATTGGTGGAAAGTAGGGTGGACCAAGGAGGCCACGTGAGCAGTCAGCACCAGTTCTGCACCAGCAGCGCTCCG
TCCTAGTGGGTGTTCTGTCTTCTCTGGCCCTGGGTGGGCTAGGGCTGATTGGGAAGATGCCTTTGCAGGGAG
GGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTTTGTCTTATGTGGGAAACA
GATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACAGTTTTGATTTTTGGAACACATC
AAAATAAATAATGGCGTTTGTGTATGCAGTGTATCTATAGCGTTGCCAGCCTGAATGGGGCTCCCCCAGG
ATGCCAGTGAGCGAGGTTACTTCTTAGGCTTCTCTGAAGACCACTCAGAAGCCATGTCCAGAGAGAATTAGTCC
CTCAGAGTCCCTGTGCTTCTGGGTGTGGGGGACAGACTCCCTCAGCCCTGCCTTAGAGGGCAGCAGATGTCAT
GAGACAAGGATAAGTGGGTAGAGAAGACACTGGGGACAACCCGATCATTAGAGGACACACGGTTTGATCAGGAG
CGGGGGAAATATCTGAAGGCTTTCTCGAACTTCACGGCATGTGCT

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FIGURE 1431

MRNLALGGGLLLLLAESRSEGKSMFAGVPTMRESSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALM
ILVAIGFKTKLAALTLVVWLFAINVYFNAFWTIPVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKK
EW

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FIGURE 1432A

GCTGACGGTTGCTGCACACACAGTCCCCACGTTCAGATCCTGAGCTTGAGGGGAGAGCTCCGTCGGGCTGGGAAG
CGCCAGCCCTGGTTTGTCAACAGCACACATGCGCTGTCCAGAGCCTGGGGCCTCCTCCTGCTGCTCTGGAGATTTT
CGGATAACTGTAAACGTGATCTTACTATTTCAGTCAACCATGTGGCCCTCTAGGTGTGGACCCCTGGCTGTACCT
AAGCCAACCCCTTGTCTGTTCAGGGTACTCTGGGCGTCACTGGGCAGGCTGGGAGGTCCAGGCCCTTGGCACCTCA
GCCATGTGTGACCTGCAGGCTGGGGTCAAGTCTTGGCATTGCACCATCAGGTCTGCGAAGCCTAGGGGAACCCCT
TCCCGCTGGGTTTAATATAGCCATTTGTAAGGTGAGGGGTGGACCAGAGCAGCGGAGATGCCTGGCAAAGTGCA
GCGGTGCCCTCAGGAGGGAGGCTGCTGCTGGCATGTCTGGGAGACATGTCTGCGTTCATAGCCTGCAGACCCCA
GGATGACCCACGGCAAAGAGTGGCCTGGCCTCAGATGCCAGTAGTGTGAGGTGCAGAAACGTTGGATAGATGAC
CTCTAAGTGCCTTTTTCAGATGTCACTTCTGATTCCAACCTGTAAATGCCCTTGACCGAAAAGAGCAGCTCTGTG
TCTTGTGGCAGTGCCACCTTGAAGACTGTAGTTGCCTGCCGAGGCACTGGGGGAAATCACGGTAGCAGAGTGT
AGGGCTGCTGCCCTATAGGATCTGCCCCAGAGGGCCTAACGTCAGATCATCTCCGGGACTGATCCTTGGAT
TGTGTGATGTGTCCAGACTCAGGGTAGCGCTCAGGAGCAAGCACTGAGAGCCCCCTAGTCTGCCCTGGGAAGG
CACCAGGGCTGACAAGAGCTCTTGCCTTCCACAGCGTCTGTTCCTCACACACCCCGCCCAAGGACGTGCCTGGCA
GCGGCTGCTGCTCCCCGCGCAGCCACCTCACCCTTGGGTTTCTGTGGCCCTGCAGTTTCTCCGTGTCAAAAG
CAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCTGGAGGACGGCATCCGTATGTGGTTCAG
TGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACGTGCGGCTACCTGCTGGCCTCGTCTTCTGCTTCTC
AACTTGTCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGAACCTTCTGTCAGTACGCCTGCTTGGGCTC
TTTGAATCATAGCTACTGCAGACGATTGCCCTTACAGCATTTTATGGGACTTGAAGTTTTTGTAGGAAACCTGG
GCCCTGGGAGGAGGCTGTGTGCTCCTAGCAGAATCCCGTTCTGAAGGGAAGAGCATGTTTGGGGCGTCCCCA
CCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAAGGCTTGTCTGTTTCTGATGTTTCATGACCC
TCCCTTCACTTGGACGCCAGCTTCTTTTCTATGTCCAGAACATCGTGGGCACAGCTCTGATGATTTTGTGGCCAT
TGGTTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGCGGCTCTTTGCCATCAACGTATATTTCAACGCCTT
CTGGACCATTCAGTCTACAAGCCCATGCATGACTTCTGAAATACGACTTCTTCCAGACCATGTCGGTGATTGG
GGGCTTGTCTCCTGGTGGTGGCCCTGGGCGCTGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTC
ACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAACTGCAGC
TTTTATGTATCCTCTTCCCTTCCCTTCCCTTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACC
TGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGC
TGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCGCTTGGCTGTGGCATCTCAGTCTATTTTGTAGT
TTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAGACGATTGGTATTATCATTCAAAGCAG
TCTCCCTCTTATTTGTAAGTTTACATTTTTCAGCGAACTACTAAATATTTTGGGTGGTTTACGCCAAACCTCAA
AACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGTTGTTTCTGCCCCGATTGTATTTTATAGG
AATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAGGGGTGGTAGAAGCTGCTGTTTATGATA
AAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAGTGTTTTATTGGGTAACACCCTGGGAGTTTGTAG
CTTGAGGCAAGGTGGAGGGGCAAGAAGTCTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCA
GTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCACCTGCAAGCCAGCCTGGCCAGCTGCTC
AGACCAGCTTGAGAGCCGCGAGCCGCTGTGGGAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGAC
TCAACCCAGTTACCTCACATGGGGCCTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCAC
CGCCCTTTCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCCTTCTGAGGCTGTGCTCACTCAGAT
TGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTACAATTTGTGATGCCTTACCGATTGATCTTAATC
CTGTATTTAAAGTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTGGGGGAGCTTAAGTCTTGTGTCTCCC
TGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCTAGACCTATCTGGGGACAGG
CTGGCTCAGCCTGTCTCCAGGGCTGTGCGGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGC
TCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGAAAGTCACCTACCTTTTAAACACAGCCGA
ACTAGTCCCAACGCGTTTGCAAATATCCCTTGGTAGCCTACTTCTTACCCCCGAATATGGTAAGATCGAGCA
ATGGCTTCAGGACATGGGTTCTCTTCTCTGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGT
GTTTCAACCTCACCAGGGCTGTCTCTTGGTCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCCATCAA
TGACCTTGGCCAAGTCACGGTTTCTCTGTGGTCAAGGTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACCAAAG
GAGGCCACGTGAGCAGTCAGCACCAAGTCTGCACCAGCAGCGCCTCCGTCTAGTGGGTGTCTCTGTTTCTCCTG

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FIGURE 1432B

GCCCTGGGTGGGCTAGGGCCTGATTCGGGAAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTG
ATTCTGGCAAAACAATTTCTAAGATTTTTGCTTTATGTGGGAAACAGATCTAAATCTCATTITATGCTGTATTT
TATATCTTAGTTGTGTTTGAAAACGTTTGATTTTGGAAACACATCAAAATAAATAATGGC

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FIGURE 1433

LTVAAH TVPTSDPELAGESSVGLGSAS PGLQQHTCAVQSLGPPPAALEIFG

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FIGURE 1434

GGCGGAGAGGGCCGGCCGGCCGGCACATTCTGTGGAGGCCGACGCGGTGCGGCGCCGACGGGAGGAGCAGCGAG
CGAGCGACGAACGCGCGAGCCGAGCCTCCCGCCGTCGCC**ATGGGCC**AGAACGACCTGATGGGCACGGCCGAGGACT
TCGCCGACCAGTTCTCTCCGTGTCACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCC
TGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGGACTACATCGACACCACCTGGAAC TCGGGCT
ACCTGCTGGCCTCGTCTTCGTCTTCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGA
ACTTCGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTATGAGG
ACTTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAG
GGAAGAGCATGTTTGGGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGG
TCTTGCTGGTTCTGATGTTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTATTGTCCAGAACATCGTGG
GCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTTGTGTGGCTCT
TTGCCATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCCTGAAATACG
ACTTCTTCCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGCTCTCCATGG
ATGAGAAGAAGAAGGAGTGG**TAA**CAGTCACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGG
TTCGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCTCCCTTGTTAAAGGCACAGAT
GTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCT
GACCCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTG
GCTGTGGCATCTCAGTCTTATTTTTGAGTTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGC
AGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAA
TTATTTTGGGTGGTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTTAAATCACACCAGTGGCTTTGATGT
TGTTTCTGCCCCGATTGTATTTATAGGAATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAA
AGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1435

MGQNDLMGTAEDFADQFLRVTKQYLPVHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGGLLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIIVGTALMILVAIGFKTKLAALTIVVWLFAINVYFNAFTI
PVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKKEW

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FIGURE 1436A

CCGGTTCCCGCGGTTCGACGCTCCAGCCGCCTCCTCCGCGCAGCCCGCCTCAGCTGCTCGCTCTGTGGGTCCGT
CCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCCAGTGTCTCCTCCTCTCCGGC
CAGACCCAGCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGTGGCCGAGCAGGCGGAGCG
CTACGACGACATGGCCCGGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTGCAATGAGGAACGAAACCT
TCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCCCTCTCCTGGAGGGTCAATCAGTAGCATTGAGCAGAA
GACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGA
GGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAG
CAAAGTGTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGAGAGAAAAGGGC
GACGGTGGTGGAGTCTCTCCGAGAAGGCCTACAGCGAAGCCACGAGATCAGCAAAGAGCACATGCAGCCACCCA
CCCCATCCGATTAGGCCTGGCTCTTAATACTACCTCGTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTG
CCACTTGGCCAAGACCGCGTTGACGACGCCATCGCCGAGCTTGACACCTCAACGAGGACTCCTACAAGGACTC
CACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGACGATGGCGGCGA
AGGCAACAATTAAGGCCCCAGGGGAAGTGGCAGCGCACGCGGATGCTACTACTGCACTCTTTATTTTTTCCCAT
GAGTTGGGGTCCGGTGGGGGAGGGAAGGGAGGGATGACCTTCCAGGGAGAAACCCAGACCTGTCTGTCTT
TGATCGCCTCTTTGACATTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGCTGGTATGGAATAGC
AGCCTCACACTGGCGTCTGGACTGTCTGTAGATTATGCAAGTGGAGCTGTCTGTCTTAATTTAATTTATTGTC
TAGATAATAGGGTTTTCAGATGAAAAGAAAACCTAAAGAGGAATGGCCCTCATTAGTAAGTTCTGTGGTTCCAG
TAAGGATTTTTATGTACATACGCTCTCGTCTCTCGTTTTGGGTACTTCTATCTCATCTGTCTCGGCTCTGCATG
TTTTCCAGGGTGTAGCCTACAGACATGGAACAGTGTAAATCCAGACTGACAGACTTGAACCTGAGGTCTCATT
CATCCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACAGTATTAACACTAAATTCAGTT
TACAGTATTTCTACATTACAGCCATATGTAACATCAAGCCATCGATTGTGTACTTTTTCTTTGTAGTTTTGG
GCTTTAACATCCTTATTCAGCCTTATCCAGTTGGTTTTGCTGTGTGATCGGTCTCCTAGGCTAAATGAGAAAGAA
AGCGACTTCAGGTTTTTGGTTTATAGGTGCTCGGCAGGTGGCTGTGGGATTTTTTTTTTGGTCTCTCTTCTCCTC
TTAACGTAAATCCACCACCAAATTAATACTCTTCTGAGAGAAACGTGAAACGCCACAAAATAGAGAAAATTC
AGGTCTGTATGTATGGATCGTGTGTGTAATTTTTCAGAGAACATCCCGCTTCTGAAGCTGCTGCAGCTCCCTCCTC
AGGGATCACACTGCCGTACCCACTCTGCACTGGGGCGTTTTCTACTGCGCCTCGTGTGGCGGACGCAGCTGGG
TGCAGAAGCTGTGGGTTCGGAGAGGCGTTTTGGAGAAGTCTGTGGTGCAGTGTGTGAAAATTCAGGTGCTAGAAG
CCTACTGGTAGAAAAACCCAAAAGGAAGAGCTATATCCTTAACCATTCTGTCCAATTTCCGGAGCCTTGTCTAGT
TGTCAGTTTTTCTCCTCCCGAAGACACTCCTTCCCAAGTAATTGTAGGAAGATAAAAAACTGTTACCAGATAAC
AAACACTTAACCTCTATTTGACCAGAACTTTTTCTCTCGAGATAGTTTTTCTTTTTTAAGAAAAAGCATAGG
AATTGGAGATTGGCTTGTCTCACGCAGCCAGTGCACATTGGAATTGACGGAAACAACGTTGCTATTTCCACCCA
TTTTTTTTTCCGCGAGCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCGCATGT
GCATTCTTTTTTTTTATATATATAAAGTCAGTGACGAGGCACTCCCGAGACGTGTAATGACACCACACTGTTTTTC
TTTTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAATTGAGGAAAAACTGACAGATGCTTTTGCTAATA
CCAAAATTGAGCTTACAATTAGGAAGTGAATGTGTAAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACG
ATGACCACAGACTCAATGTGCTCTGTAAACATCGCACAGTTTACCCAGCATGACTTTCTTAGGAGGCCCCCTCCT
CACGCTAGAGTAAAGTCCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAGCTTTGCCGCTTTTGTGC
CTCTCACAGGCGCCTAAAGTCATTGCCATGGGAGGAAGACGATTGGGGGGGGAGGGGGGGGAGGGTAGGTGG
GGCTTTCCCTAATTTATCTTCATGTCCAGTGAGCAGTGTGCGTTTTTCTTGTAGCATTGGAAATGATTTACT
GGAATTACAAAACCTATTTTTCTTTAAATTTTCTAGCTTTGGCTCTGGCTGCTTTTTAGATAATGCAAGATAAAA
ATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAGCTTGAATGGTTTTTCTTTTC
TTTTTTTTTAAAGAAATGCACTTGCCATGATACTGTCTCCAGTGAAATGATTACTCCTCCATTACTCTATTG
ATACAATATTGTGCATGCTAGTGTGTATTCTATACAGTAGCTTGAATTTGATTAACTTATACTGTAGGTGTTA
TGTATTCTATGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAATTTAATTTTCTTTT
TGGGGGTAAAGTTTGGCTTACCAAATAGTGATTGTAACAAATTGATCGTTTTTGGATGTTGCTATAGTGACATGC
AGTTATATATTTTTGTTTTTAAAGGGGGGAGCAAAAGAAACACCAGTGTAGCTTAATCTTAATGTCTGGTGT
TGTCATGGTGAAATTAATACTATTACAGTGTGGAGAACAACAAATATGTTCTCTGAATGAGCCTTTGTGCTTTT
TGTCATGTTATGCAGTGAACATTTTTTAAGGTCTAATCAGTGATTATTTTTCCAGCTCCGIGTTTCTCTAAGGAA

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FIGURE 1436B

TTATTTACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAATGTGAGTCATTATGTAGCTG
TCGTACATTGAGCAAATAAACTTACAGATCTGACGCC

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FIGURE 1437

MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKTSADGN
EKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKVFYLMKMGDYRYRLAEVATGEKRATVVESS
EKAYSEAHEISKEHMQPTHPIRLGLALNYSVFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQL
LRDNLTILWISDQQDDDGEGNN

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FIGURE 1438

ATGGCATTGGCGTCCGGGCCCCGCAAGCGCTAAGCATGGCTCCGGGCAGCTCGGCCTTGGGGGCTTCGGGGCCCGA
GACGCGGGGTATGAGTGGGGCGTGCCTCCACGCGGAAGTCGGAGCCTCCTCCCCTGGATAGGGTGTACGAGATC
CCTGGACTGGAGCCCATCACCTTTGCGGGGAAGATGCACCTTCGTGCCCTGGCTGGCGCGGCCGATCTTTCCGCCC
TGGGACCGCGGCTACAAGGACCCAAGGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAG
GCCTGCTATATCTTTACCAACCGTTGCCGCCTTCTCGAGGGTGTAAGCAGGCCCTCTGGCTCACCAAGACCAAG
TTAATAGAAGGCCITCCCGAGAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCATAGAGAACCAAGACGAG
TGCCTTCTGAATGTGATCTCTCAGCCCCGTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGC
CCGTCATCGTGGACAACCTAATACAGCTGTGTAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATC
TGTTGCCAAAACCTCCACGTTTTCTGCTACCTGGAACCGAGAGTCTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGA
GCCCCACTGAGCACTAAGGATCCTCTGCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTT
CTAGAGACCTTCTACCCCATATCACCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACA
GGATTCCAGGAAGGCTATCCTTACCCCTATCCCCATACCCTGTACTTACTGGACAAAGCCAATTTACGACCACAC
CGCCTTCAACCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGCTTTTGGCAGTGCCCTGGCTCAGGCCCGCTCC
TCTATGGGAATGATGCCAAGGTCTTGGAGCAGCCCGTGGTGGTGCAGAGCGTGGGCACGGATGGACGTGTCTTCC
ATTTCCTAG

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FIGURE 1439

MALASGPASAKHGSGQLGLGGFGARDAGYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIFPF
WDRGYKDPREFYRSPLHEHPLYKDQACYIFHHRCLLEGVKQALWLTKTKLIEGLPEKVLSLVDDPRNHIEHQDE
CVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGSGG
ARLSTKDPLPTIASREEIEATKNHVLETFYPISPIIDLHECNIYDVKNDTGFQEGYPYPYPHTLYLLDKANLRPH
RLQPDQLRAKMILFAFGSALAQARSSMGMMPRSWSSPWWCRAWARMDVSSIS

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FIGURE 1440

AAGTGTCTGGTGCCTCTGCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGCTCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAATAATTGACAGTTATTTTATCTGA
TGCTAGTGTCTCTGGTGAAGGAGAACATAAAATGAGTTACATTAGAAAGGCAAAGAGCCAGCCTAACCTGA
CCCAATACTCATCATTGTTTATGTGGAGCAGATGTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAACCATTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAGAAGGGAAGCATGATGAAGTGGCGATAGTCTTCTTGTGTC
AGAAGGAGAGTTTATCTTCTTCCGCTTAATGTTCTTCTGTAGTATTGGAAGAGAACTCACAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTGTGGGAAATGACTTCT
CCCTCATTGCTGCTAGAGATTAGGGAATAATGCAATGTGACCGTTTGGTTAATATACAAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTGAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCCTCTAGTGAATATTAATCTCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAAATACTCTAGTCC
TTCGATATCTCTTAATACGAGTTTACATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAAGCAAAGCAGA
AGCAGTATGACAGTGAACCTGAGCCAGAGGATAATGTGAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATCCGTCGGAAAGTTGTGAGTCTGATGTTGAAGGACTTTG
CTGGGTTCTTAGAATATTATTACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTTTATTATGCACCATTTGC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGTCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGGAGGTGATGTCTTATTGTGGGGAAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAAGTATGTGATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGTGAAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTACTGGGAAAAATCCAGCAATGGACGGCAGTGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAAGTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTTATGTCAAATATGAGGCCCCAGGATTCTGGCGAGGTCC
TCTTCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAACCCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTTCATCATTCTACAGTTTATGCTATTTGTGGAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTAACTGTGTATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAAGCTTTGA
GCTGGAACCTCAGCAAAGTATATATTGTTGAGTATTTCTTTGGAACATTTTATTATGTACTGTCTTA
CAGAAATTTCTGAAGCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAA

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FIGURE 1441

MGVPAFFRWLSRKYPSTIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNLVREYLERELTMASLPFTFDVERSIDDWVFCFFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVKHTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSPSPISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNF
DVDAADEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKEFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRRLRAALEEVYDLPTEETR
RNSLGGDVLFVKGHHPLHDFILELYQTGSTPEVVPPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPVQTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFD RGVGAEP LLEPWNRLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 1442A

CGGGGCCGAGGCGGAGGAGCGGCCGCCGCGGGGGCCAGCCGAGCCGCCCTCGCCCTTGCCCTTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGCGGGGAGACGAGCCGCCGTCCCGGGCGGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGTCTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCACAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACCAGGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAGAAATCAATTTTCTTGTGGAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTGCGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACCTGGGACACTGCCTTCGGCCACCCCCAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCCTAC
TTTAAGGATTCAGAGTCAGCTGATGCAGGCGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCTCATCCATGAAA
ATTCCCTTAACAAATTTCTGGATTTCGGAACCTGGCACGGAACAGTATTTGTTGGCCAAACACTAGCAAAA
CCCAAAGAGAAAATTTCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGATCCAGGAAAGGCTCCAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTGCCATCCAGTAATCTCAGAAAGTGAAGTTTTCAGCAG
TTCTTAAATTTCCGAGATGAGAAGGAATGGAAAACCTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGCAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGGCCATTACCCAAGGAATATCAGAAGATAGGAAAGGCCCTTCAGAGTTTGGCCACAGTGTTCAAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCATTTCCTGATGGAATGTAATCACGAGTATAAAGGTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCTTACAAGACAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGGATCTATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCAGTGATGTAGGACAGAACGGGCTTGAA
GAGAATGCCGCGTGCTTCTCCTGACTTGGGGCAATGCAATTCAAAACCTTTTTTCCCTATTATTCAGAAAAAA
AGGAAACAAAACAAAAGAAAGAGTTGCAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCGATCCATTATTTAAACCAGTGGAATTTGTCTCTATTTTGGAAAGTAC
TTAAAGTTACCAGAAATTTCAATGGAAAATGAGGGGTTTCTCCCACTGATATTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATAAATTTATAAGTCTCCACAATCTTCCAGTCTTACCCAGTGTGAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACATATGCCAGATAAAAAATATCTATGTTGTATATTTTAT
AACTCCTTTTCACTCCTCTGGGGCTCCTGTCTATTGAGGGAAGTCGTTACGCTTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCACTGCTTTCTCTTTGCACTTCCTTCTTAATCTTGGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTCAATGGCCAGTTGGTGTCTATCAGCAAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAAGTGTAGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGCCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCCTTACCAGCTTCCCTCCCGCTGCTTTTCAATTTCTG
ACCTTAATAATTACGGGAAATGGAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTTGTCTTCAATATCACGGGTTTTTGTAAATGTTTCATAAGTAATTCTCCCACTT
GATTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATGTTTTAAAAAACTGTA

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FIGURE 1442B

CAGTAAATTCTCAAATCACTTTTTCAAAACACTTTTTGGACTTTGTGTGTGATTTTTGTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCA GTTCCGTAGGTCAAGTGTGCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCAGTGTCTGACTCTCGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG

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FIGURE 1443

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDLSASTAQASSSAASNNHQVGSNDPWSAWSASKSGNWESSEGWGAQPEGAGAQQRNTNTPNNWDTAFGH
PQAYQGPGATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQL
AKPKEKIPIIVGDYGPWWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLMECNHEYKGF LGCFDIIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYNVIRLYLEQQVQFYETIAEKLRLSRFPVM

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FIGURE 1444A

CGGGGCCGAGGCGGAGGAGCGGCCCGCGCGGGGCCAGCCGGAGCCGCCCTCGCCCTTGCCCTTGCCCTG
CGCGGCTCAGAATCACCATCCGCGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGGCTGCTGAACCTGGAAATAATGAAGTACGGTTAATGAAGGAGAAATC
ATCACAATCAGAAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGTATGGAAAGATCAATTTTCTGTGGAAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCAGCCAGCACAGCTCAGGCCAGTTTCGTGGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACCTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACCTGGGACACTGCCCTCGGCCACCCCGAG
GCCTACCAAGGACCAGCAACTGGTGATGATGACTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCCTAC
TTAAGGATTCAGACTCAGCTGATGAGCGCGGCTCAGCGAGGAAACAGTCGTGCTAGTTCTCATCCATGAAA
ATTCCCTTAACAAATTCCTGGATTGCGAAACCTGGCAGCGAACAGTATTTGTTGGCCAAACAACCTAGCAAAA
CCCAAAGAGAAAATTTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGATCCAGGAAAGGCTCCAAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCCG
ATGAGAGAGACTTCAGGCCTGGATGACCAGGATGTGTCCGATCCAGTAATCTCAGAAAGTGAAGTTTTCAGCAG
TTCTTAATTTCCGAGATGAGAAGGAATGGAAAACCTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTTGGACTTAGTAGAAATAGAGCAGAAGTGCGAGGCTGTG
GGGAAGTTTACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTAACCAAGGAATATCAGAAGATAGGAAAGCCCTTGACAGTGTGGCCACAGTGTTCAGTTCCAGT
GGCTATCAAGGTGAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCTGATGGAATGTAATCACGAGTATAAAGGTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCTTACAAGACAAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGATCTATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGTATGAGACAGAACGGGCTTGAA
GAGAATGCCGCGTGCTTTCTCTGACTTGGGGCAATGCAATTCAAAACCTTTTTTCCCTATTATTAGAAAAAA
AGGAAACAAAACCAAAAGAAAGAGTTGCAAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCCGCATCCATTATTTAAACCAGTGGAATTTGTCTCTATTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGAAAATGAGGGGTTTCTCCCACTGATATTTACATAGAGTCATAATTTA
TATGCTTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCCAATCTTCCAGTCTTACCCAGTGTGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACTATGCCAGAAATAAAAAATATCTATGTTTGTATATTTTAT
AACTCCTTTCAGTCTCTGGGGCTCCTGTCTATTGAGGGAAGTCGTACGCTTTTACTGCCACAGTTACAGCTCA
AGTGTCTTACACTTCAAGAGGGAGGACGCTGGGGGGCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACAGTGCTTTCTCTCTTGGCACTTCCTTCTAATCTTGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGCGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTTATGGCCAGTTGGTGTATCAGCAAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGGCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCTTACCAGCTTCCCTCCCGCTGCTTTTCAATTTCTG
ACCTTAATAATTACGGGAATGGAAAGTCTGGGCCAGCATCAATAAATGACACCAAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTGTTCTTCAATATCAGGGTTTTTGTAAATGTTTCATAAGTAATCTCCCACTT
GATTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATGTTTAAAAAACTGTA

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FIGURE 1444B

CAGTAAATTCTCAAATCACTTTTTCAAACACTTTTTGGACTTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCAGTTCCGTAGGTCAAGTGTTCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCAGTGTCTGACTCTCGGATATTTGGATTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTTAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTACAAATATAGTGG

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FIGURE 1445

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDLSASTAQASSAASNNHQVGSNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSEADAGGAQRGNSRASSSSMKIPLNKFPGFAPGTEQYLLAKQL
AKPKEKIP IIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPNTNRSVNHRYKHFDWLYERLLVK
FGSAIPISLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYN SVIRLYLEQQVQFYETIAEKLRLQALS RFPVM

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FIGURE 1446

AGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGA
CGAAGAATTTGATGAACATATGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAG
TAAAGAACAAGGTAATGTAAAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAG
ATATGATCTCCTGTGTCTGGAAGGATTGGTTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTA
TAAACGGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGATACGTCCTTTTGC
GGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATTGAACCTTCAGGAGAAATT
ACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGTACCCATGATTTGGACACTTTGTGCGGGCCATT
TACTTATACTGCAAAGCGTCCCTTCAGATATCAAATTCAGCCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGA
ACTGATGAACATATACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCC
AGTTATCTATGATAGCAATGGTGTCTGCTCTTCAATGCCTCCCATCATCAATGGGGATCATTCCAGAATAACAGT
AAATACTAGAAATATTTTATTGAATGCACGGGAAGTACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGT
CACCATGTTTCAGTGAATATTGTGAGAATCAATTTACGGTGAAGCTGCTGAAGTGGTTTTTCTAATGGAATC
ACATACCTTTCCAGAATTAGCTTACCGAAAGGAGATGGTGAGAGCTGACCTAATTAACAAAAAGTTGGAATCAG
AGAAACTCCAGAAAATCTTGCCAACTTCTGACCAGGATGTATTTAAATCAGAAGTCATAGGTGATGGGAATCA
GATTGAGATTGAAATCCCTCCAACCAGAGCTGACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGC
TTATGGATATAACAACATTCAGATGACTCTCCCGAAAACCTTACACCATAGCTAATCAATTTCTCTTAATAAGCT
CACTGAACTTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAAGA
AGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGTAATCTAAACAGCTGA
ATTTAGGTGGCAGCAGTACCCTTCTTCTGGCCTCCTGAAGACCATAGCAGCAAAATCGTAAGATGCCCCCTTCC
ACTGAACTGTTTGAATCTCTGACATTGTAATAAAAGATTCTAATACAGATGTAGGTGCAAAAACTACAGACA
TCTCTGTGCTGTTTATTACAACAAGAATCCTGGGTTTGAGATCATTCAIGGGCTGCTGGACAGAATTATGCAGTT
GCICGATGTGCCTCCTGGTGAAGACAAGGGGGATATGTGATCAAAGCATCAGAAGGGCCTGCTTTCTTCCCGG
GCGATGTGCAGAGATCTTTGCCAGGGTTCAAAGCGTCGGGAAGCTTGGGGTCCCTTCATCCTGACGTTATACCAA
ATTTGAGCTGACCATGCCCTGCTCCTCCCTAGAAATCAATATTGGACCCTTTTTGTGAAGATTGGTCTCTGTGGT
GTGATTCTCTTCCAGGTGTCCTTTCTCCTCCCCTAGTGTCTTAAGTCCCTCCACAGGGAACATCTATTTG
GGCTTTGATGTTTAAATAAAGTAGAAAGCACTGTCTGGCTGTGTGGGTAGAGACCATCCTTTCCCTGCATATTAGG
CCAGCTTGTGCCATATACCAGTGTGGTGTCTGTGTGTAAGCTGCATTGTTGGGTAAAAGCCCCGTGGAGTGCTG
GAGAAATGCACTAGCAGAGTGCAGGATCTGTTCTGAAAGGCAGACGTGCTCCTCAGACATCAGAACATCACATTG
GAACGGATTACTCCTGCATAACAAGATCCCATTTCTTTCTTATTGATAAAACAAGATAATCGATGAGAATTCAT
GTTGCATGAGTTCGAGATAACTGAGGGGTTTAGCTTTGATTTTCTACATTTGACATGTATTTCATCATTGAGAAAC
ACTAAATAACAATATTTTGAAGAACGTTAAGAATCAATTATGGTCCAACAATTATAGCTTCTGAGGTGAGTT
TAAAGTGAAGAAAAATCTGTAATACAAGGATTCAAATATGTGAGGGTGCATAGGTATTTTTTACTCTATCTGT
GATACTCTAAGATAGAGTACATGCAACAAAGATCTGTTCTGCTGTAAGAGTTAAATGGACAAGTATTGATATCA
ATGCAGTATGAACATTAGGAAACAATGAGAAGCTTATTTTTGCCATAGGCCATACATGTTACTGTAATCAGTCAG
TTATAAATCATGGTTTTAAATACTTAATTGAGCTACTAGTTTCTCTATTGTCCAGGGAGATATTAGACCTCTC
TTTTTCTGAAGCTAAGCTTCAGCCAATCCTCCTGTTTTATATCCTAATTTCTTTCTTACTTCAATCTAGAATT
CTCCAGTAGGTACCATCTCTGGAAAAAGCTGGGTCTCATGTTTGAGACAAGTCCCAGGTACTATTGAAGTAAT
AAGAAATATGATAAAATATAATACTTTAAAGTCCAGTAGAAATAGCTAACAAAGGCTGGGTGCGCTGTGGCTCA
TGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGCAGATCACTTGAGGCCAATAGTTCGAGATCAGCCTGAC
CAACATGATGAAATGCCATCTCCACTAAAAATATAAAAATTAGCCAGGCATGGTGGTGTGGGCCTGCAGTCCCAG
CTACCTGGGAGGCTGAGTCAGGAAAATCTTGAACCAGGAGGTGGACGTTGCAGTGATCCCAGATTGTGCCACT
GCCCTCCAGCCTGGGTGACAGAGTGAGATTCTGTCTACAAAA

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FIGURE 1447

MPTVSVKRDLLFQALGRITYTDEEFDELCFEFGLELDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPANRYDLL
CLEGLVRGLQVFKERIKAPVYKRVMPPDGKIQKLIITEETAKIRPFAVAVALRNKFTKDRYDSFIELQEKLHQNI
CRKRALVAIGTHDLDTLSPFTYAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIIENKPLYPVIYD
SNGVVLSPPIINGDHSRITVNRNIFIECTGTDFTKAKIVLDIIIVTMFSEYCENQFTVEAAEVVFPNGKSHTFP
ELAYRKEMVRADLINKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPPTRADIIHACDIVEDAAIAYGYN
NIQMTLPKTYTIANQFPLNKLTELLRHDMAAGFTEALTFALCSQEDIADKLGVDISATKAVHISNPKTAEFQVA
RTTLLPGLLKTIANRKMPLPLKLFESDIVIKDSNTDVGAKNYRHLCVYYNKNPGFEIIHGLLDRIMQLLDVP
PGEDKGGYVIKASEGPAFFPGRCAEIFARVQSVGKLGVLHPDVITKFELTMPCSSLEINIGPFL

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FIGURE 1448

GCTCCGGGAGACTTCCGGCAGGGCGGGCGGGGTCTTGGCGAACGGTCTTCGGAAGCGGGCGGGCGCGATGAC
CACGCTACGGGCCTTTACCTGCGACGACCTGTTCCGCTTCAACAACATTAACCTGGATCCACTTACAGAACTTA
TGGGATTCCCTTTCTACCTACAATACCTCGCCCACTGGCCAGAGTATTTTCATTGTTGCAGAGGCACCTGGTGGAGA
ATTAATGGGTTATATTATGGGTAAAGCAGAAGGCTCAGTAGCTAGGGAAGAATGGCACGGGCACGTACAGCTCT
GTCTGTTGCCCCAGAATTCGACGCCTTGGTTTGGCTGCTAACTTATGGAGTTACTAGAGGAGATTTAGAAAAG
AAAGGGTGGATTTTTTGTGGATCTCTTTGTAAGAGTATCTAACCAAGTTGCAGTTAATGTACAAGCAGTTGGG
CTACAGTGTATATAGGACGGTCATAGAGTACTATTCGGCCAGCAACGGGGAGCCTGATGAGGACGCTTATGATAT
GAGGAAAGCACTTTCCAGGGATACTGAGAAGAAATCCATCATACCATTACCTCATCCTGTGAGGCCTGAAGACAT
TGAAATACCCCTGGGCAGTGGTTCTTAGGCAGATACTCTAGATGCTTTATGGACAATATTATTTTCATTGGATGAT
TCTGGAGCTCTATTAGGAGAAAAGTAATCATTTTAGGTCTTAAAGACTTCAAGAAAATACAGGTTATCAATTTAT
TTTAAATCTCATTGTTTCCAGTTAGCAATATCATACCTATTAAAGCTGTTTCATTGTAACAAAATCAATCAAAAA
GGCAGCTAGGTCAGAAGGAAACATACCACTCTCATGGTTCATAGTATTCACTGTATGTATGCTAGGGAAAAGACT
TGCTCCAGTCTCCTCCTCAGTCTGTGCCTGAGAACCCTGCTGCATATATTTGTTTTTAAATTTTGTAATTGAAC
TGTTAATTGAAGCTTTAAAAGCATATATGAAATGTATAAATCTAAGATGTATAATACATTATTGACTCTAAAAAA
AA

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FIGURE 1449

MTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLQYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEWHGHVT
ALSVAPEFRRLGLAAKLMELLEESERKGGFFVDLFVRVSNQVAVNMYKQLGYSVYRTVIEYYASNGEPDEDAY
DMRKALSRDTEKKSIIPLPHPVRPEDIE

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FIGURE 1450

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC
TTTGCCCTTTCCAACCTTCAGCTACAGTGTGTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAATCCCTGGGCCCCCTT
TCTTTTGTCTTTGCCAAAGTCGTGTTGTAGTCTTTTGGCCCAAGGCTGTTGTGTTTTAGAGGTGCTATCTCC
AGTTCCCTTGCACTCCTGTAAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAAAGAGCCAGCGG
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC
TGACCTCTGCAAAATTCCTTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCCTTTGCGG
TGTCTGTGTTTCTGGTAGAGCTCTATGGAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC
TGGTGGTACAGAAATGTTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC
TGACCATGTACCATGGATGGTTTCTACTTCTGTATATCCTGATCATCACTATTGCAAAATATTGCAAAATTTGG
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTCAGGAGAAGACAGAAGCAAACCTAG
CAAATATGAATGCCACAATACGAAGGATTGACCACTTAACCAACATCTTAGCCCCATGGCTGTTGGCCAGATTA
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGGGATGGAACTTGGTATCCATGTGCGTGGAGTACG
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAAT
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACATCATTAATGGGTGTGAAAGACT
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC
GAGATGGATGGGTCTCCTACTACAACAGCCTGTGTTCTGGCTGGCATGGGICTTGCTTTCTTTTATATGACTG
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTGACTCAGGGACTGAGTGGTTCCATCCTCAGTATTTTGA
TGGGAGCATCAGCTATAACTGGAATAATGGGAAGTGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTTCTGTTGATCTTGTGTGATCTCTGTATTATGCCTGGAA
GCCCCCTGGACTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTTCAAGGAGAGTCAATTACACCTA
CCAAATACCTGAAATTACAACCTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA
GTCTGTAATCTGTGCCATAATCTCTGTCAGTCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC
AGAATCCATGAATATCTTCTTGTATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG
GCTTGTCTGATTTGATTTCAGTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTGCCCCAAATACTC
TGGGAAACAAGCTCTTTGCTTGGCGTCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAA
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC
CTAAGTCAGCAGAAATTAAGTGAATTTCCCTTATGTTGAGGCATGGAAAAAAATGGAAAAGAAAACTCA
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTC
TGCAAACTCACTCTTGTTCAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTTTAAAAACAAATCTTC
AAGTATGAAGACTAAATTTTGATACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG
TGGAAAAACAAAACACTTAACTAGAATTCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATAGTGATCTG
TGTGTAGAACATGAGGGTGAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTTATTTTTACTGTTTTATACCCAGAAGTTATTT
CTACATTGTTCTACAGCAAGAATATTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
GTTTGTATATATTTTAAAAAATTGTTTTAAAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA
ACGTTTTATATGCATTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTATCCTTGGAGTTTAACTCCT
TTGCTTATCTTTCTACAGTATGACATAATGATTTGCTATGTTGTAAATCTTTGTAAAAAATTTCTATATAAAA
ATATTTTGAAAAATCTTAAAAAATAAAAAA

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FIGURE 1451

MTRAGDHNRRQGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNLLLLTAVYGLVVAGSVLVL
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWLTSYILIIITIANIANLASTAT
AITIQRDWIVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWV
SYYNQPVFLAGMGLAFLYMTVLGFDCTTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRKCGLVRTGLI
SGLAQLSCLILCVISVFMFGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPEV
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL
ISVSFVAMGHIMYFRFAQNTLGKLFACGPDKEVRKENQANTSVV

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FIGURE 1452

GGAACAAAAGCTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGG
CACGAGCAGAAGAGGGGGCTAGCTAGCTGTCTCTGCGGACCAGGGGAGACCCCGCGCCCCCGGTGTGAGGCGG
CCTCACAGGGCCGGGTGGGCTGGCGAGCCGACGCGGCGGCGGAGGAGGCTGTGAGGAGTGTGTGGAACAGGACCC
GGGACAGAGGAACCATGGCTCCGCAGAACCTGAGCACCTTTTGCTGTGTGCTATACCTCATCGGGCGGTGA
TTGCCGGACGAGATTTCTATAAGATCTTGGGGGTGCCTCGAAGTGCCTCTATAAAGGATATTAAGGCTATA
GGAACTAGCCCTGCAGCTTCATCCCGACCGGAACCCTGATGATCCACAAGCCAGGAGAAATTCAGGATCTGG
GTGCTGCTTATGAGGTTCTGTGAGATAGTGAGAAACGGAAACAGTACGATACTTATGGTGAAGAAGGATTAAAG
ATGGTCATCAGAGCTCCCATGGAGACATTTTTCACACTTCTTTGGGGATTTTGGTTTCATGTTTGAGGAACCC
CTCGTCAGCAAGACAGAAATATTCCAAGAGGAAGTGATATTATTGTAGATCTAGAAGTCACTTTGGAAGAAGTAT
ATGCAGGAAATTTTGTGGAAGTAGTTAGAAACAAACCTGTGGCAAGGCAGGCTCCTGGCAAACGGGAAGTGCAATT
GTCGGCAAGAGATGCGGACCACCCAGCTGGGCGCTTCCAAATGACCCAGGAGGTGGTCTGCGACGAAT
GCCCTAATGTCAAACCTAGTGAATGAAGAACGAACGCTGGAAGTAGAAATAGAGCCTGGGGTGAGAGACGGCATGG
AGTACCCCTTTATTGGAGAAGGTGAGCCTCAGTGGATGGGGAGCCTGGAGATTTACGGTTCCGAATCAAAGTTG
TCAAGCACCAATATTTGAAAGGAGAGGAGATGATTTGTACACAAATGTGACAATCTCATTAGTTGAGTCACTGG
TTGGCTTTGAGATGGATATTACTCACTTGGATGGTCACAAGGTACATATTTCCCGGGATAAGATCACCAGGCCAG
GAGCGAAGCTATGGAAGAAAGGGGAAGGGCTCCCCAACTTTGACAACAACAATATCAAGGGCTCTTTGATAATCA
CTTTTGATGTGGATTTTCCAAAAGAACAGTTAACAGAGGAAGCGAGAGAAGGTATCAAACAGCTACTGAAACAAG
GGTCAGTGCAGAAGGTATACAATGGACTGCAAGGATATTTGAGAGTGAAATAAAATTGGACTTTGTTTAAATAAGT
GAATAAGCGATATTTATTATCTGCAAGGTTTTTTGTGTGTGTTTTTTGTTTTTCAATATGCAAGTTAGGC
TTAATTTTTTTTATCTAATGATCATCATGAAATGAATAAGAGGGCTTAAGAATTTGTCCATTTGCATTTCGAAAAG
AATGACCAGCAAAAGGTTTACTAATACGCTCCTTTGGGGATTTAATGTCTGGTGTGCCGCTGAGTTTCAAG
AATTAAAGCTGCAAGAGGACTCCAGGAGCAAAAGAAACACAATATAGAGGGTTGGAGTTGTTAGCAATTTCAATC
AAAATGCCAACTGGAGAAGTCTGTTTTTAAATACATTTGTTGTTATTTTT

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FIGURE 1453

MAPQNLSTFCLLLLYLIGAVIAGRDFYKILGVPRSASIKDIKKAYRKLALQLHPDRNPDDPQAQEKFDLGAAYE
VLSDSEKRKQYDTYGEGLKDGHQSSHGDIFSHFFGDFGFMFGGTTPRQDRNIPRGSDIIVDLEVTL EEVYAGNF
VEVVRNKPVARQAPGKRKCNCRQEMRTTQLGPGRFQMTQEVVCECPNVKLVNEERTLEVEIEPGVRDGM EYPFI
GEGEPHVDGEPGDLRFRIKVVKHPIFERRGDDLYTNVTISLVESLVGFEMDITHLDGHKVHISRDKITRPGAKLW
KKGEGLPNFDNNNIKGSLIITFDVDFPKEQLTEEAREGIKQLLKQGSVQKVYNGLQGY

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FIGURE 1454A

GC GCGAGTTGCTGCTAACGCTCCTCCTCCAGCTTCCCACCCCGCCGCCCGCCGCGGCCGGTACCAACGGGTGG
TCTCGCCGAGGGAGCTGTCTGCTCGTGGTCCCGGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGC
ATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCACTCC
ACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGT
GGCTTGAGGTTGGCTGAGAAAAACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTC
AAGTTTCGGTGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTATGGAGCTGATTGCAAAAT
GGAACATTGAACATTTTGAAGAGGAGAACCATATTAAGATGCTCTGTCTCGAATTGTAGTGAAATGATCAAG
CGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTCCAAACAAGGGGAAACACAGACA
GAATTGGTGATGTTTATCCTTTTGGGACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGA
AGGGACATCCAGCAAAACATTAAACCAGAACATGGAAAGGATCTTCAGTTTCTGTCTTAACACACTTCAAGAAAT
GTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGCGCAAGCAAAGTGTGAGTAGGAGTT
GCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGATCAGTACATCACTGCTGAAAACTGTAAACTC
CTGGAGATACTGTGTTTGTCTGTTGAATGAACAGGAACCTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCACTC
AGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTGGAGATGTTGCCATGCATTATATACTC
TCCGCCGCACAGACTGCTGATGGAGGAGTTTGGTAGAAAAACACTACGTCTTCTGAAGAGGCTCTGTCTAGGTG
TTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTTGGA
AAATACCTGGAATCTTTCTTGCTTTTCAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGG
GGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCTTTGTCTATTAGCAATAATACCAAAATATCTTCGTGCT
TCCATGACTAACTTGGTCAAGATGGGCTTTCTTCTTAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGTAT
TTGATAGCTAAGTGAAGACTTCAATGCTTTCTTCAACTCTCCCGAGCACAAACAAGGAGAGGTGATGAGGTTGGCA
TGTGCTTTGGATGCCAAAACCTAGCTTCCAGATGGCTGGGAGTGGCTAAAGTATCAACTATCAACTTTTCTTGAT
GCTGCTTTGTGTAATCTTGTCTGTGCACTTGGAACTGGAGAAGGAAGCCTCTGTTCCGTCTTCTACCTTCATTCTC
GTGAGTGGGAAGCCATGACTCTTTTTTGGAAAGTGTATACCCAGATGTTTGAACACTAAATAGAGAAGAA
ATTCTGTTAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACCTTGATACCAAGGATCCCTCATCCTGTCC
TGCGTCTTACTAATGTCTCTGCACTCTTTCCATTTGTACCTACAGACCAGAGTTCCTGCCCCAGGTCTTCTCT
AAGCTATTTTCTATCTGTCACTTTTGAACCTGTGGAAGAAAGTAAGGCCCCAGAACCCGGGCACTGAGGAATGTG
AGGAGGCATGCTTGTCTCTCATCATCAAGATGTGTCTGACTACCCCGAGCTTGTGCTGCCCAATTTTGACATG
CTTTATAACCATGTGAAGCAACTCTCTCCAATGAGCTACTCTGACACAAATGGAGAAGTGTGCCCTCATGGAA
GCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAAGAGGTGTTCTAGAGGAGCTGATGGCACCA
GTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGTGTGATGTTGATGCTTTTATTGTGTATGTGGGT
ACAGATCAGAAGAGCTGTGACCCAGGCCTGGAGGATCCGTGTGGCTTAAACCGTGACGAATGAGCTTTTGTGTA
TACAGCATTCTGGGTGTGGTGAAACGAACCTTGCTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTTGTG
GTGGGTTATACATCCAGTGGAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAACTTCTTGACAAT
TTGCTTGGCCTTATAAGAACCACAAATACATTATATGCACCAGAAATGCTAGCCAAATGGCAGAGCCTTTACCC
AAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAACCTCAATGAC
TCTCTGTCTTCAAACCGTCTTGGAAGAATGCAGCGTTTCTTCTTACCCTCTATGAAACTGTTTTCATATC
CTAGGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCA
GCCTTTGTCAACTTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCGTGTCTTTGTAAAGCCTCTGGTG
CTCTTCTGTCCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGGACCTCTTTTACCTACCTCCATATG
AGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGTGTGTGGAGAAGATGAGGCTGCAGATGAAAAC
CCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTT
TGCTGTGTTTCAAAGAAGGGTGCTGACCACAGTAGTGCTCCCCCAGCAGATGGAGACGATGAAGAAATGATGGCC
ACAGAGGTCACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGT
ACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTCTGTCTGCCAGAGGACAACCTCACAG
CTCTGTGGCCTCTCTCAAACAAGTGCTGTGAGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTACCAGT
GTGCTGAAAGGCTTACAGATGCACGGGCAGCACGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATA
TACGAGGCACTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCA
CTGGACCAGTTTACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTC

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FIGURE 1454B

AAACGCCTCATTGCTGGTTGCATTGGGAAACCCCTTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTT
CCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACC
ATCTTTGAACCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTCATCTCTTCTTCCCTTTGTAGC
CGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCACTGTCAGCCTGGAAAGAGATCCAGGTCTGGAG
CTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAAAC
TATTCTGTCTAGATGTCCCAGATAGTTCCCATTTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAG
CAGCCCTTCTCCCAAGCCCTCCCACCCCGTGCAGCCACATACCTGTACAGAATGGTAACTAAGGGTGTCTGTG
CCCAACCCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCAACTACTTGTGCCAGAGTTTCTCTTGGACC
ACTCCAACCTCCCACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTTCCCACTCCCTAAGGGGCATGTCTGG
GTTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGAT
GGGATCCATGGTACAGGCTACTGCTAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAA
GTCTTTAGTGCTAACATCCCTTTAGAGTTCACAATCTTGCCCTTCCATGAATGACCCCTCAGTCTGGCCTCCC
CAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTCTCAAGG
ATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCC
AGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACAT
GCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGAT
ACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGC
TCTGCACAAAAACAGACCTGTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCGAGAGCCGAAGTGGACTGAA
GCTACAGTTTTTAGCTGGTGGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTG
GGAGTCTTGTGTTGCTCCCTCTTCTGTGTGGTGTCTGGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGT
TTCCCTCCAAACCTGATAGCTGCCTATTCCGTGTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTG
TAATATTTTAAACATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAACTTTTTGTAGAAACATTAA
CTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 1455

ENHIKDALSRIVVEMIKREWPHWPDMLIELDTLSKQGETQTELVMFILLRLAEDVVTFTLPPQRRRDIQQTIT
QNMERIFSLLNTLQENVNKYQQVKTDTSQESKAQANCRVGVAAALNTLAGYIDWVSMSHITAENCKLLEILCLLL
NEQELQLGAAECLLIAVSRKKGLEDKPLMVLFQDVAMHYILSAAQTADGGGLVEKHVFLKRLCQVLCALGNQL
CALLGADSDVETPSNFGKYLESLAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKM
GFPSKTDSPSCEYSRFDSDDEDFAFFNSSRAQQGEVMRLACRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCS
AVGTGEGSLCSVFSFSVQWEAMTLFLESVITQMFRTLNREEIPVNDGIELLQMVLNFDTKDPLILSCVLTNVSA
LFFPVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNVRRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQL
LSNELLTQMEKCALMEALVLISNQFKNYERQKVFEELMAPVASIWLSQDMHRVLSDVDAFIAYVGTQKSCDP
GLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNP IFRNPCTEQILKLLDNLLALIRTH
NTLYAPEMLAKMAEFFTALDMLDAEKSAIILGLPQPLLELNDSPVFKTVLERMQRFFSTLYENCFHILGKAGPSM
QQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLRVFVKPLVLFPCPEHYEALVSPILGPLFTYLHMRLSQKWQV
INQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTPSAM
AELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLADAVTWLFTSVLKGLOMH
GQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDSLDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCI
GKPLGEQFRKEVHIKNLPSLFKKTTPMLETEVLDNDGGGLATIFEP

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FIGURE 1456

GCACGAGGCCGTTGGAGGCGCCACGTCCCTTGC GGCGGCGGGAGAGAAATCGCTTGGACTTCGGGGCGGCCTCGGA
CGGCC**ATG**GCCTTTACCCTGTACTCACTGCTGCAGGCAGCCCTGCTCTGCGTCAACGCCATCGCAGTGCTGCACG
AGGAGCGATTCCCTCAAGAACATTGGCTGGGGAACAGACCAGGGAATTGGTGGATTGGAGAGAGCCGGGAATTA
AATCACAGCTAATGAACCTTATTCGATCTGTAAGAACCGTGATGAGAGTGCCATTGATAAAGTAACTCAATTG
CAATTGTGTTACTTTTATTATTGGAT**TGA**ATATCAGTGGAGAAAATGGAGACTCAGAAGAGGACATGCCAGTAGA
AGTTATTACTTTGGTCATTATTGGAATATTTATATCTTAGCTTGGCTGACCTTGCACTTGTCAAAAATGTAAAGC
TGAAAATAAAACCAGGGTTTCTATTTATCTGTTTTTTTTTAAAGTTGCACTTGTAGTTTCATTACAAAAGATC
AGATCATGAAAGGCAGTAACCTCTCCAGGACTGGAATATCTGATTGCTCAGTGTTAATAGTAGTTCATGCTGTGGT
GAGATTGTTAAAAGGGTGCAAGACTGTTGCTTCTCTTTTTTAGATATTTTCTATCTCTCACTTCTCAGGGATG
AAATTCCTTTTCAAAGTTTGAAGTTCCTTGCAACTTAGCCATGATGTGAGTGGTTATCCCTAGATAAAATTA
AGGATTTTTAAAAAGTAATTACTGCACATAAAATGATAAATAGGTAATTTGAATAATTTTATTTAAGCTCCTTG
GTTAATTATTTTGTCTATTGTCTCAGCTATAAATTCAAATTTATACATACTATTGAGTATTAATTTCTCTGATT
TCAGGGAGAATTCTGTCAGTCACATGATGATTATGTTTTGTTTAAACAATTCTTCCATGCACTTGTTATTTTAT
TAATTTGCCTGAATGATGAGACCAGACCAGTGTCTACAGATTTTCATTGTCAGAAAAATCTATAAGTCTGCCCTT
TTTACAATGATGATTTAAAAAAAACAACAGCGTAAATATTAGCCCAACAAGAGCAGTCCTAAACAATCACAATTAC
ACTGTACTACCCAAGAAGACTGTTTATTGTGAAGCATTACCTTTCAAAAAATCATTACATTTCTATTTCTTGGT
GGAGCAGCACATTGTGGAGTGTGATTCTTAATTCCTCATTGAGTTTGTCAATAGGACATTGATGCTGGATAGGTT
GTCTTTTGTTTTTAIGTCTCAGACCATCTTGTGAGATTGTTGCCTATCTCATAATACAGTTTTATGCAGAAAGG
TTGAACTATGTAATGGTTTTTATGGAAATTATCAGTTACAATATTTTAAAGGTGTAGAATGGCATCTTTGTTT
ATAGGAGAACATTTGTAAATAAAGTTAAATTTCTAAGCCTTTAAATATTGTAAGTATAATTTCCATAAAAACC
ATTACATAGTTTCAACCTTCTGCATAAACTGTATTATGAGATAGGCAACAATCTCACAAGATGGTCTGAGA
CATAAAAA

1605/2682
FIGURE 1457

MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDQGIGGFGEPEGIKSQLMNLIRSVRTVMRVPLIIVNSIAI
VLLLLFG

1606/2682
FIGURE 1458

GTCTGTAATCCGTGCTCCAGTAGTAGCTGCAGTGACTGTAGGTATCGGTGTTCCCTATTATGTTAGCTTATGCT
ATGGCGTAGTTCCAATTTCTCTTTGTGCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAGTTAGGA
TTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAGCAGAAG
CAAGACACAACCCAAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGAGCCACA
TGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTGGAGCCAGTATAA
CGGGGAGTCTGTCAAGGAAGTCCATGGTAAACTGTTTTAACAGGTTGGAAGTACAAGCAGATGTACAGAAAGAAC
GGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAAGCAATGG
CAGGATCCATTCTGAATTCCTACATCCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATATTGAGT
CAAAGCCATCCAAATTCAGGCACAACAGTGGAAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTCATGCTG
GCGGTTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGACAGCAGGGAAAA
AATCAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATGCACAGT
TGTTAGAACAACAAGCACGAACCTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTGTAGCAG
ATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTGTAGTCATGGTT
CCAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCCTTCTGAGGTAGAAAAATGACCGTCTGAAAAATCCC
CACATCAGTGTAGCATTTCTGTGGTTACCCAAAGTGCTTCTCTGAGGTTTACAGTTTACAGTTATCATATTGCTG
AAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTTATATTTTGGCGATGCACTAAAGAAGAAACAATAACA
ACCACTCACATCAGACAATGGAATTTAAAGTTGCAATTCAGACTGAAATTTAGGCCCATAAATGCTGCAGATAA
TTACCACTGTACAACCGTGTGGAGCTGGTTGAACATACATGTGACTACTTAAGTTTACAGTTTACCAGCAAAAGC
CGGGTTTCATTATCATAATGCAGATACATTTTCTGTGTTGAGCAAGGCATGTGTGTCATGTGGATCTTAGTTAC
CAAACATGAAGTGAAGGCTTTAAAGTGCAATTTATTTAAGGATAATAAATTTGAAGAGCAAGCATGTTTTGTG
TGTTTGCCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATGGTCTTAATTTATATAATCAATATAAAAT
ACTAATGCAATTTCTACAGCATTCAAATGAAGAAAACCTGAGGCTTTAGGGATAAGTGGTTAGTGATATTTTATTG
AAACCACTAAAGAGATAAGTTTAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATTTCTATT
TATATCGGCATAAATTTCAATTTTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCATTGCTA
CCATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACCTTGAAATAGAAATACCTGGTAC
TCATCTTGTTTATTGTTGATGCCATCTTAGAGGAAAAATGTAAAGGTAAGTAATTAAGCATATGACAGCAACA
AATAAGATACATAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAATCCACCTTTCTCTAAGG
GGAAGTTTGTACCCCATGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGAGGATTT
TGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACTTGGATTATATATAAAAAATACAGGAAATAGGTAAACATGAA
TGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTACATAACC
TCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGTACAAAA
GGTCCATGTATGATTAGCATTATTTCTTTGCTTTTGTGTTATGGACAATGTTTCACTGACATAAGCAGAAGTTG
GCCAAAATACTGCCTGTACTGTAAATTTCTGTATAATTCACTTAAATAAAAGCAGGTTAACCTCAAAAAA
AAAAAAA

1607/2682
FIGURE 1459

MLAYVYGVVPISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDITTSVAEARHNPSIGEGSVGGLTGSLS
ASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLVQADVQKERYSLSGESGTVSLGTVSDNA
STKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKE
ATAGKKS KSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMT
SCSHGSSDYHTRFATVNILPEVENDRENSPHQCSISVVTQTASCSEVSQNLNHAEEHGNGIKPNVDLYFGDAL
KETNNNHSHQTMELKVAIQTEI

1608/2682
FIGURE 1460

GGCACGAGCGGCACGAGCGGAGGGCGCCTCGCGGCAGGAGCGGGATTTCGGGGTACGGGAACGGCAGGGGAA
CGGGATAAAGTTCCCGGAGAAAGGAAAGGAGAGCGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGAC
CTACAAGAACGGAGGACAGGGGCGCACGATGGTCCCGGGGGAGCGGAAACAAAGGCACGCAAAACGGAAAAGCG
TGTGTAGGGGAGCGGAAAAGGAAGTCACCACCGTGGCCTGCGACGAAATGCGGAAAAGTCTTTTGAAGACAGCCT
CTCTGTCTGGAAGGACAAAATTGCTACATCAAACAGGATTGTCACTTTATAGTACATCCCATGGATTTTATGAGG
AAGAAGTGAAAAAACACTTCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCA
TTCTTACTCTGAACAATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTACAACCTCTGGAAAAAGTAA
TTGAATTGGAAAAATTGGACAGAGGGGAAAGGCCTCATTGTCCGTGGGGCAAAAAATACCTTTCTCTTCAGGATCTG
ATCTGAATGCTGTGAAAATCACCATAGGAATCTCCAGAGGAGACTTCCTTTAATAAGTGTGCGCTGGTTCAAG
GTTGGGCATTGGGTGGAGGAGCAGAATTTACTACAGCATGTGATTTTCAGGTAAATGACTCCAGAGAGTAAGATCA
GATTTCGTCCACAAAGAGATGGGCATAATACCAAGCTGGGGTGGCACCACCCGGCTAGTTGAAATAATCGGAAGTA
GACAAGCTCTCAAAGTGTGAGTGGGGCCCTTAAACTGGATTCAAAAAATGCTCTAAACATAGGAATGGTTGAAG
AGGTCTTGCAGTCTTCAGATGAACTAAATCTCTAGAAGAGGCACAAGAAATGGCTAAAGCAATTCATCCAAGGGC
CACCGGAAGTAATTAGAGCTTTGAAAAAATCTGTTTGTTCAGGCAGAGAGCTATATTTGGAGGAAGCATTACAGA
ACGAAAGAGATCTTTTAGGAACAGTTTGGGGTGGGCCTGCAAAATTTAGAGGCTATTGCTAAGAAAGGAAAATTTA
ATAAATAATTGGTTTTTCGTGTGGATGTACTCCAAGTAAAGCTCCAGTGACTAATATGTATAAATGTTAAATGAT
ATTAAATATGAACATCAGTTAAAAAAAATTCTTTAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTT
GAAATCTGAACCTATTTACCTCATTTCTTGCCAATTACTCCCTTGGGTATTTACTGCGTAATTGGAACATTTACT
AAAATAACACTTTTGGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1609/2682
FIGURE 1461

MAKSLKLTASLSGRTKLLHQTGLSLYSTSHGFYEEEVKKTLLQQFPGGSIDLQKEDNGIGILTNNPSRMNAFSGV
MMLQLLEKVIELENWTEGKGLIVRGAKNTFSSGSDLNAVKITIGISQRRPLISVALVQGWALGGGAFTTACDF
RLMTPESKIRFVHKEMGIIPSWGTTTLVEIIGSRQALKVLGALKLDSKNALNIGMVEEVLQSSDETKSLEEAQ
EWLKQFIQGPPEVIRALKKSVCSGRELYLEEALQNERDLLGTVWGGPANLEAIAKKGKFNK

1610/2682
FIGURE 1462

ATGTTGGTGCTGTTTGAACGCTCTGTGGGTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTT
GATAGTTTATGGAAGAATTTGAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAGTT
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAACTAGGAGGGGTCATAAAGGAA
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACCTATGAGAGGAATTCGTTTACAAATGGATGGA
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTCAGGCAATTTCCCTGTTAGATGACTTGGATAAAGAA
CTAAACAACCTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTGAATTAGGAAAAATTATTTTCAGAT
AATTTAACATACTGCAAGTGTTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAGATTCTTGGAGCTGAAAAGGCACTT
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTATCATGCTTCACCTCGTGGGCCAGACA
AGTCCCAACACAAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAAGTTTGGGAAGAC
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAA
GTGGCAGAAGAAGAAGAACATCTGTGAAGAAGAAGAAGAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA
CTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAGAGA
GAGAACGAGGATTAA

1611/2682
FIGURE 1463

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFKEFQDTAEALAAFTALMEGKINKQLKKV
LKKIVKEAHEPLAVADAKLGGVKEKLNLSCHSPVVELMRGIRSQMDGLIPGVEPREMAAMCLGLAHSLSRYR
LKFSADKVDTMIVQAI SLDDLDKELNNYIMRCREWYGWHFPELGKII SDNLTYCKCLQKVGDRKNYASAKLSEL
LP EEVEAEVKAAAEISMGTEVSEEDICNHLHLCTQVIEISEYRTQLYEYLQNRMMAIAPNVTVMVGELVGARLIA
HAGSLNLAKHAASTVQILGAEKALFRALKSRDTPKYGLIYHASLVGQTS PKHKGKISRMLAAKTVLAIRYDAF
GEDSSSAMGVENRAKLEARLRTLED RGIRKISGTGKALAKTEKYEHKSEVKTYDP SGDSLPTCSKKRKIEQVDK
EDEITEKKAKKAKIKVKVEEEEEKVAEEETSVKKKKKRGKKKHIKEEPLSEEEPCTSTAIASPEKKKKKKKKR
ENED

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FIGURE 1464

GGCACGAGGCTCAGCGTTTGAGTCAGCCAGGAGTAGCAATAGGTTTGGCTTGGACTCCCTTAGGTGGAGAAATCA
GTTCGTTGGAGGCGAGTGAATGGATGGCGAGGGCCAGTTAACTCTGACCGGCCAGCTCGGGGACGTGATGAAGG
AGTCCGCCCACCTCGCTATCAGCTGGCTCCGCAGCAACGCAAAGAAGTACCAGCTGACCAATGCTTTTGGAAAGTT
TTGATCTTCTTGACAACACAGACATCCATCTGCACTTCCCAGCTGGAGCTGTCACAAAAGATGGACCATCTGCTG
GAGTTACCATAGTAACCTGTCTCGCCTCACTTTTTAGTGGGCGGCTGGTACGTTTACAGATGTAGCCATGACTGGAG
AAATTACACTGAGAGGTCTTGTCTTCCAGTGGGTGGAATTAAGACAAAGTGCTGGCGGCACACAGAGCGGGAC
TGAAGCAAGTCATTATTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACGACAGGATTTAA
GTTTTGTACAGCAAGCTGCCTGGATGAGGTTCTTAATGCAGCTTTTGTATGGTGGCTTTACTGTCAAGACCAGAC
CTGGTCTGTTAAATAGCAAACGTAGGTCCAAATCTCAATTTTTTAGAATTTTAAGTTATGAAGTGCTCAAAGGT
ACTGACACAGTTGATTTTATTCACACCATTAGGGGTATGCAAGATGTCCCTGTTTTATAAACATAATCACAACAG
TAATAAACCTCAAGTAGTGGCTAGTGTTTAGTATAGAAATATAAGATGTTGATTTAGTAACTGATAAAAAATCGA
ATTCTTGTCTTTTTAGTGGGATCCTTACTGTCCCTGGAAGATATAGCATAGTGGTTCTCAGCACAGTCTCCAGA
ACAGAAGCATCTGTAGTACCTGGTAACCTTGTAGAAATGTACATTCTCAGGCTCCACAGCAGGCCGCTGAATCA
AATCTGGGAGGTGGGGACAGAAATCTGTGTTTTAAGAAGCCTTCCAGGTAATTCTGCTGCACACTCAAGTTCAG
GAACCACCGGTATAGACCATTACCTTAGTGGATTTACCTGTAGAGTTTATTGGATCCTGAAACCAATCAATTACT
TAGAAGTAGGCAAAGATGAAAGTATAGCCAACTATTCTTGGCTATATATATATATTCAAGTGGGCCGGCGTAT
GGCTCACACCTGTAATCCAGCACTTTGGGAGGTGAGGTAGGCAGATCACCGAGCCCAAGAGTTCAAGACAATC
CTGGCCAACGGCGAAACTCTGTCTCTACAAAAAATATACAGGCGTGTAGCATGTGCTGTAATCCCAGCTTCTT
GGGAAGCTGAGGCACAAGAATTGCCTGAACCCAGGAGGTGGAGGTGTCAGTGAGCTGGGATCGCGCCATTGCACT
CCAGCCTGGCTGACAGAGCGAGACTGTCTCTAAAAAAAAGACTCAAGTGGACCCTACAATGAAGCCTACACAT
CCCAATAGAAGCCCCCTTCTTATGCTGAGGGAAGCAGCCCTCAGAACATGATAGCTTGTATCCAGCAGAGTGGCAC
GTGCTGGCACACCTCACAGAAGCACCCCTGGCCCTGGATGCCTGCAACCTCAGAAGAGTGCAGCTCCCAGAGGGAG
GCAGCCATCCATCTGGGATGGTCTAAGCATGGAATCCTAACTCCTGATTCCGTCTCCTATTTCTTGCTTGGCTA
TGCCAGTTCCCAAATCTGGTAGATGTCCATGCCATGTGCTCCTGCTGGGACTCAATTCAGGCTATGTATGACTA
TGAAGTCAGGCTCATCTGCTTACTGGCTGTGTGAACCTTTTTGTATCTTGGTTTTCTTCATCCATGAAATCCAAGT
AATACTACCTAATTGTTACTGTGGAGATTAAGTTCAAATGCAATGTATAGTAATATTAAGCAATTTCTAGTTATT
ATTCTAGCCAGTAATGGACTTCAGAATCTTTTATTACACAATATAAGAATATGTATGTAAAGACATTTTGAATT
TCCTGGATGAGAAGGAAGTCTGGGCTGGGCATGGTGGCTCACGCCTGTAACCCTAGCACTTTAGGAAATCGAGGC
GAGTGGATCACTTAAGCTCAGGAGTTCAAGGCCAGCCTGGGCAACATGGCAAAACCCCATTTCTACAAAAAATAC
AAAAATTAGCTGGGCATGGTGGCACCCGCTGTAGTCCAGCTACTTGAGGCTGAGATGGGAGGATGAGGGAGGTC
GGGCTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCACCCCTGGGCGACAGAGTGAGACCCTGTCTCAAAAA
AAAAAAAAAAAAA

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FIGURE 1465

MKESAHLAISWLRSSNAKKYQLTNAFGSFDLLDNTDIHLHFPAGAVTKDGPSAGVTIIVTCLASLFSGRLVRSVAM
TGEITLRGLVLPVGGIKDKVLAHRAGLKQVVIIPRRNEKDLEGIPGNVRQDLSFVTASCLDEVLNAAFDGGFTVK
TRPGLLSKL

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FIGURE 1466

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGGAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTTCAGAGGAGTTAATTTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT
ACATGGATCCTACTGGTAAACTAGAACTTGGGAATCAGTGAACGTACCAACCAGGAAAGAGCAGACTGCGGATG
GTGTCGCGGTCATCCCCGTGCTGCAGAGAACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCCGACCAC
CAATGGGGGGCTACTGCATAGAGTTCCCTGCAGGTCTCATAGATGATGGTGAAACCCAGAACGAGCTGCTCTCC
GGGAGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
TGTCAAACTGTACTATACACATCGTGACAGTCACCATTAAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
AGCCAGGGGATGGAGAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCCCTACGCTCTAGCGCTGAAACATGCAAATGCAAAGC
CATTGGAAGTGCCCTTCTTGAAATTTTAAAGCCCAAATATGACACTGGCCATTTTGTAAACGAGACCACCAGGCC
TTCTTCACTAAGACTTTGTATTCACTTAGTTTAAATGTAGATTGCCATTAGCTTTTTCGTAAAATAAAAGCACA
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
GCTAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTAAAGCTCAACAGAGTTAACTACAG
CTCAGTTACTTTTCTAGTCCAGTCTGGAACACAGGGGTATTGGTATTGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

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FIGURE 1467

MESQEPTESSQNGKQYIISEELISEGKWVKLEKTTYMDPTGKTRTWESVNVPTRKEQTADGVAVIPVLQRTLHYE
CIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCTIHIVTVTING
DDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAKPFEVPEFLKF

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FIGURE 1468

GCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTGCGGCCGCGAGCGGAGCCGGCTGAGCGGGCGCC
GAGCTCCCGCCATGCCCCGGAACACGCTGTCCTCGCGCTTCCGCCGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCACAGAAA
ATAGCAGCGCAGTGTTACTCCAGTGGCAGAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTAAAAAAAATAAAAAGACTCATGTTACCTTGAGAAGAATTTCTGGATGCCCAGGCT
GGTGAAGAAGGGATTGACAATGGACCATCTTCCTAGGAACCTCCAAGTAAACTATTTTCAAGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTGGTCAGATGCAC
CTGTGTGCACTGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGAAAAAAACCCAAGAGTTTGTACAGACATCCTGTCTTCCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAGTGCCGTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1469

MARNTLSSRFRRVDIDF DENKFVDEQEEAAAAAEPGDPSEVDGLLRQGDMLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVL TNFKSSEIEQAVQSLDRNGVDLLMKYIYKGF EKPTENSSAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

1618/2682
FIGURE 1470

ACGATGGCATGACAACCGACGTTGGAGTTTGGAGGTGCTTGCCCTTAGAGCAAGGGAAACAGCTCTCATTCAAAGG
AACTAGAAGCCTCTCCCTCAGTGGTAGGGAGACAGCCAGGAGCGGTTTTCTGGGAACGTGTGGGATGTGCCCTTGG
GGGCCCCGAGAAAACAGAAGGAAGATGCTCCAGACCAGTAACACAGCCTGGTGCTCTCTCTGCAGTTCCCTGCTGC
TGTCCCTATGACCTCTTTGTCAATTCCTTCTCAGAACTGCTCCAAAAGACTCCTGTATCCAGCTTGTGCTCTTCA
TCATCCAGGATATTGCAGTCCCTCTTCAACATCATCATCATTTTCTCATGTTCTTCAACACCTTCGTCTTCCAGG
CTGGCCTGGTCAACCTCCTATTCCATAAGTTCAAAGGGACCATCATCCTGACAGCTGTGTACTTTGCCCTCAGCA
TCTCCCTTCATGTCTGGGTCATGAACTTACGCTGGAAAACTCCAACAGCTTCATATGGACAGATGGACTTCAAA
TGCTGTTTGTATTCCAGAGACTAGCAGCAGTGTTGTACTGCTACTTCTATAAACGGACAGCCGTAAGACTAGGCG
ATCCTCACTTCTACCAGGACTCTTTGTGGTTGCGCAAGGAGTTCATGCAAGTTCGAAGGTGACCTCTTGTACAC
TGATGGATACTTTTCCCTTCCTGATAGAAGCCACATTTGCTGCTTTGCAGGGAGAGTTGGCCCTATGCATGGGCAA
ACAGCTGGACTTTCCAAGGAAGGTTCAGACTAGCTGTGTTTCAAGCATTCAAGAAGGAAGATCCTCCCTCTTGACA
ATTAGAGTGTCCCATCGGTCTCCAGTGCGGCATCCCTTCCCTTGCTTCTACCTCTGTTCCACCCCTTTTCTTC
CTTTCTCTCTGTACCATTCACTTCTCCCTGACCGGCTTTCTTGCCGAGGGTTCTGTGGCTCTTACCCTTGTGAA
GCTTTTCCCTTAGCCTGGGACAGAAGGACCTCCAGCCCCCAAAGGATCTCCAGTGACCAAAGGATGCGAAGAG
TGATAGTTACGTGCTCCTGACTGATCACACCGCAGACATTTAGATTTTTATACCCAAGGCACTTTAAAAAATGT
TTTATAAATAGAGAATAAATTGAATTCTTGTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1471

MLQTSNYSLVLSLQFLLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIAVLFNIIIIIFLMFFNTFVFQAGLVNLLF
HKFKGTIILTAVYFALSISLHVWVMNLRWKNSNSFIWTDGLQMLFVFQRLAAVLYCYFYKRTAVRLGDPHFYQDS
LWLRKEFMQVRR

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FIGURE 1472

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC
AGCCCTGTCCCGGTGAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGGCGGGCTGGGCGCGCGCGGTGC
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGCTGTCTCTGGGAACTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA
CAGGGACCCCCCTTCCCCGGCTCCCCTGCCCACCCTGCCGGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA
ATCCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAATCTCCAGCTATTGCAGATC
CCAACCCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA
TGCAGGTCTTGATGAAGTTGTAGGGCCAGAAGGAATGGAAAAATTTTGTGAAGACATTGGTGTGAACCTGAAAA
TATTATTATGTTAGTTTTAGCGTGGAATTTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA
TGATATTTGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTAGTATTTTACCAGTA
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA
TGCTGATCTTAGTAATATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT
CCGTCAGACATCATAGCAAGAACTATGTGAAGAAAATGCAACCTTTCAATCCCACGTGTATACAAGCTAATGT
GATGAGGGGGAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCCTTT
TTTTAAAGGAGGTTTTTCTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTAGACTGAATATTGAAGTTT
TTGTTTTGAGTTATGTTTATAACATTTATTTTCAACAATAAAGATTGAGATTTGTGAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1473

MPVKKRRKSPGVAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQLNDISSFKNIYRYAFDFAR
DKDQRSLDIDTAKSMLALLLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDEGAWPVLLD
EFVEWQKVRQTS

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FIGURE 1474

TAACCTCTTCCCTCTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCCTTCCCAGTAGAAACGTAGGAACAATT
TCGTGAACGCAATCCGGAGTGCCCAACATGGCGGCGCCGTAAGGTGCATGGGTAGAGCCTTGATACATCATCAA
AGGCATAGCCTTTCCAAGATGGTTTATCAGACATCACTTTGTTCTTGTCTGTAAACATCCGAGTGCCCAACAGA
CATTTTGCTGCTGCTACAAAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAA
GATGAAATAGAAAAAATAAAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAACGCTTA
TACCCGAGACAGATATATGAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCCTTGACTTTACTAGT
CCAAAGCAAAGTGTTTATCTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACC
AGTGTTCTTAGTTTGCCATACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAG
GTCAAAATAGCGGAAGAAAATGGAGCTGCATTTGCAGGAGGCACCTAGTCTGATACAGAAGATTGGGATGATGAA
ATTGTTGCAGACTTTTACGTAGCTGTTCCAGAAATAATGCCTGAACCTAATCGATTAAAGGAAGAACTGAATAAA
AAATATCCAAAGCTTTCTCGAAATTCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACAT
GAAATTAAGGTAGATGAAGAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAG
ATAGCTGCCAATCTGCAAGCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTA
CGTGCTTTCTTCGTAGTTCAACAAGTGAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAA
AATGAAGAAAGTGAAGAAAGATGCCTAAATGTGGTGAATTGTGAAATTACTTTCAAGTGGTTTAAAGAAGCAATG
GAGAAAATGATAATACAGCATAATTTTACATTGATGTCTTGTATTGATCATACTTGAAAGTGAACCTTAAACA
TTGAAAAATCGTACAGTCATTCAAGAATAAGAAAATAAAATTTCTCTTTGTCTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

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FIGURE 1475

MVYQTSLCSCSVNIRVPNRHFAAATKSAKKTKKGAKEKTPDEKKDEIEKIKAYPYMEGEPEDDVYLKRLYPRQIY
EVEKAVHLLKKFQILDFTSPKQSVYLDLTLDMALGKKKNVEPFTSVLSLPYPFASEINKVAVFTENASEVKIAEE
NGAAFAGGTSLIQKIWDDEIVADFYVAVPEIMPELNRLRKKNKKYPKLSRNSIGRDIPKMLELFKNGHEIKVDE
ERENFLQTKIATLDMSSDQIAANLQAVINEVCRHRPLNLGPFVVRAFLRSSTSEGLLLKIDPLLPKEVKNEESEK
EDA

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FIGURE 1476

TAGTCACGCTCGGTACCAGGCGCAGATCATGSCAGGCAGCCGGCTGGAAACCGTAGGGAGCATCTTCTCTCGGAC
TCGGGACCTGGTTTCGGGCCGGGGTGCTGAAGGAGAAGCCCCCTGTGGTTTGACGTATATGACGCCTTTCCCCCGCT
GAGGGAGCCCGTCTTCCAAAGGCCTCGAGTGCATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCA
CGAGGATCGGATTAGAGCGAAGTTTTATTTCAGTGATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAATCCAA
CTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAACTTGGAGAAACAGATGAAGAGAA
GTTATTTGTGGAAACAGGGAAGGCTTTATTGGCAGAAGGTGTCATTTTAAGACGAGTAGGCGAAGCAAGGACTCA
ACACGGAGGTAGTCACGTTTCCCGGAAATCCGAACACTTGAGTGTGAGCCACAGACTGCGTTGGAAGAAAACGA
GACTCAGAAAGAAGTTCCACAGGACCAGCATTGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCCCTCCCTG
AAGGACCTGTATACTGTGTATGCTGGCATTACACTCTACTCACTGGCTGAATGTTGAGCTATTTTTAAACAGTT
GAACTGTGTAAATGTTTCTTGATCTCTAAGGTATTATGTTTGCCTTCTCTTAGTTATTCTGGGTTGTCACAAAG
CTCAGTATCATGGTTTGACAGAAGCAGTTATGTGAACCTTTATGTTAGGACATTACTAAATAAAGAATTCCCTAG
CTGCTTATAAAGTAAATTTACTTTGAATTGTAAATAACATGAAGAAACCTTTATAAAGATTGTTCAAATGGGACT
CAA

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FIGURE 1477

MAGSRLETVGSIFSRTDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPRVRYGKAKAPIQDIWYHEDRIRAKFY
SVYGSGQRAFDLFNPNFKSTCQRFVEKYTELQKLGETDEEKLFVETGKALLAEGVILRRVGEARTQHGGSHVSRK
SEHLSVRPQTALEENETQKEVPQDQHLEAPADQSKGLLPP

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FIGURE 1478

ACGGCGCCCGCCAGGAGCGCCCCCACTCCCAGGCCAGCCCACCCGGCGGACCGGGCCCCGCGCGCCAGGCGA
GGCACTGGGCTCCCTCTGCTCCCCGTGGGCGCTCCCCGCGTGGGGCCACTGCCCCGGCCCCCGCCATGGTGCG
GATTTCAAAGCCCAAGACGTTTCAGGCCTACTTGATGATTGTCACCGGAGGTATAGCTGTGCCCACTGCCGCGC
TCACCTGGCCAACCACGACGACCTCATCTCCAAGTCCTTCCAGGGCAGTCAGGGGCGTGCCTACCTCTTCAACTC
AGTGGTGAACGTGGGCTGCGGGCCAGCCGAGGAGCGGGTGCTGCTGACCGGCCCTCCATGCTGTGCCGACATCCA
CTGCGAGAAGTGAAGACCACTTTGGGCTGGAAATATGAACAGGCCTTTGAGAGCAGCCAGAAGTACAAAGAGGG
GAAGTACATCATTGAACTCAACCACATGATCAAAGACAACGGCTGGGACTTGACCCCCGCTCCCCGACGCATGTG
GCTCCAGCCCGGCCTGGCCGCCAGGGAGCGCCACTGGCTTCCCGCCACCCGAAGGGAGCTCTGGACCCTCAGAGC
CCCTGCAGAGGACGGATCTAGCTCCTGTATATATATTTTATTGCATGCACTGTGACCTTGGGGGGAGAACAGAAG
GGGGACGACGCCCCCGCACCTCCTGCGATCTGGCTGGCTTGGATCTCGTTTTTAACCCGTTCTGCCCCACCTGC
CCTATAGTTATGGCCTGTGTTCTGCTCTCCTGGTCCCAGTGCACCGTCTGCTCTGTGAACTCCTCCCACAGGCC
CTTCTTACCCCACGCGTGTCTGTCCCCCTCGTTCTGTAGCGTTTGTACATAATAAAACAATGGAGTGGAGACAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1479

MVRISKPKTFQAYLDDCHRRYSCAHCRAHLANHDDLISKSFQGSQGRAYLFNSVVNVGCGPAEERVLLTGLHAVA
DIHCENCKTTLGWKYEQAFESSQKYKEGKYIIELNMIKDNWD

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FIGURE 1480

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCCATGGG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGACAAAACCCACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCGTG
ATTAAAAAGGATGTGGTATGAGGATCCATTTCAATAAGTATAGATTTGCCCCAACCTGTACCATTTCGGTATTTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGAGAGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGCATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTTCTTACCA
CCTGAGAAACTAAAT

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FIGURE 1481

MGSLSGRLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFPHLQQSAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARSLPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

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FIGURE 1482

TCCAGCACCAAAGCGGCCGTTCTCGGATTCCGGAGCGTTCTGGAGCCCCGAGAGACGCCCCGGGGTTCTAGAAGC
TCCCCGGCGCGCCAGTCCCGGCTTCATTCCGGCGTCCCTCCGAAACCCACTCGGGTGCACGGGTCTGCGGCGA
GCCGCGACCGGGTCTTGGCGCGCACCATGATCGTGGCGGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGC
GGTTCGCCCCGGGCGGCGTTCGGCGACTCGGGCCCCGGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCGAGGCCCTC
GAGGGCCAGCGCCTTCATCCCCGTGGAGGAGTCTTCGGGAGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGC
TGGAGGCACTGATGTCTCTGGGCGAGTAGACAACCTGGCAGTGGTGATGGGCCTGCACCCTGACTACTTTACCA
GCTTCTGGCGCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGGCCAGCTCCTGGCGCCACTACATTGCCA
TCATGGCTGCCGCCCCGCCATCAGTGTCTTACCTGGTAGGCTCCACATGGCCGAGTTTCTGCAGACTGGTGGTG
ACCCTGAGTGGCTGCTGGGCCTCCACCGGGCCCCCGAGAAGCTGCGCAAACCTCAGCGAGATCAACAAGTTGCTGG
CGCATCGGCCATGGCTCATCACAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCACACTTGGTCCCTGG
CCGAGCTCATTAGGCTCTGGTCTGCTCACCCACTGCCACTCGCTCTCCTCCTTCGTGTTTGGCTGTGGCATCC
TCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCCCAGGCACCTACACCCCTAGTGAACAGAGCAGCCCCCAA
GCAGGGACCCGTTGAACAACCTCTGGGGGCTTTGAGTCTGCCGCGACGTGGAGGCGCTGATGGAGCGCATGCAGC
AGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCCAGGAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGT
CAGAGAGCCTGCTGGTGACCCCTCAGCTGACATCCTGGAGCCCTCTCCACACCCAGACATGCTGTGCTTTGTGG
AAGACCCCTACTTTCCGATATGAGGACTTCACTCGGAGAGGGGCTCAGGCACCCCTACCTTCCGGGGCCAGGATT
ATACCTGGGAAGACCATGGCTACTCGCTGATCCAGCGGCTTTACCCCTGAGGGTGGGACAGCTGCTGGATGAGAAGT
TCCAGGCAGCCTATAGCCTCACCTACAATACCATCGCCATGCACAGTGGTGTGGACACCTCCGTGCTCCGAGGG
CCATCTGGAATATATCCACTGCGTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACCACTCC
TGGAGCGGAACCTCAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACC
TCTTCTGGAGGCACTTCCGCCACTCAGAGAAGGTCCACGTGAACCTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
CTCTGCTGTACGCCCTCCGIGCCATCACCCGCTACATGACCTGACTCCTGAGCAGGACCTGGGCCCCGGTTAGCT
CCCCACAAGGACTTCTCTGCTGGAGACAGCCCCAGACCCTTTTGTGTCCATGCCACCCCTCCCCACGCTGCAG
TGGGCTTGTGTGTGATGTGCAGTCCCGAAGCCACACCCTCCCTTTTCTCACTGGAATGGACAGTTCACTGCACT
GACTCTGGGATCTCAGCCCTGCTCCTGGGAGCTGGAAGAGCACTTGGAGATCCTAAGGGACCACACCCTTCTCC
TTCCCTGCCACAGAGGCAGAGGGCACAGGAAGAAGCCGGGCCAAGCTCGGAATTAATGTGCCACAAGTGTG
TGGCCTTCTGAACTGGGAAGTCCCTGGCTGGCCCCGGGGGAGAGGGGCAAATGCCTCCGGGACTGACACTCCA
GGCAGCTTTGCTTCTCTCCCTGTCTATTTCCAGATTTCACTACCTCCTACTTGCCATCACCCATCAATGTGAA
AGTCAGGGTCACAGCTGGTCTGTGTGTCCAGTTCCCTAAAAGCCTGTCTGTGGGCGCCTGAGGCTGTGCCC
GAATCCTAGTTAGTTTTTGAATCTCTTTGCCCTTTTCCCTTTTCTCCATGCTTAATGGTGTGAGGCGTCAGG
AGAGAGGCCAAGTACATAAAAAAAAAAAAAAGCAGATTATCTCTAGAGAGTTTGAGCCTTTGCTGGTCACATTGC
CTTCTGAAGAGGAGGGAGTATTAGATTATAAATCCTCTTTATTTTGGTCTTTATGCTTGAGGTTCCAACCTGGA
GCCACAGTGTGTGAGAGGAGGAGGAGAGGGAGAATTCTGTTCTCCAGAGCTGCACCTGCCTCGCAGAGGCCAGC
ACCCCACTCTCCTGCCTCCAGTGGCCCTGCCGAGATGTCTCCCAAAAAGTTGAGCCTTTCTAGATGGCTTAGGT
GGCACCATGGCTCAGCAGGAGGGGCGGGAGGCCACAGGGTTCTTGTGTTGGACCCTGCCCTGGGCCATGGCCAGG
TGACCATGGCTACATTGCCAAACCTCTGACTGCCACAGCTGCAGACTGAGAGGGTGGTCTGAGTCCCCACAATG
TCTGAAGCTGCCCTGGGATTCTCAGGCCAACCTGCCAACAGCAAGCGGATTTTCTTGCAAGATCAGGGACCCCA
TTTCTGCAGCAGTGTCTCCTGGGTGCCTTCTGAGGACTCCCACCCCATCCAGTATCTCATCTGTCCCCTCTC
CTGGGGCTTAAAGTGGGTTGCTTCCAGGCAGAAGCAGCAAGGACCGATTCCAGGCATTTCTGTAGCAATGACT
GTGAATTACGACTTCTCTTGCCCTTCTTCTAGCAGTCTGTGCCCTCCTCTCTGACCAGTTTGGAGGGCACTGAAGA
AAGGCAAGGGCCGTGCTGCTGCTGGCGGGGAGGAGAGGAGCCTGGCCAGTGTGCCACATTAAATACCCGTGCA
GGCGCGGAGAAGCAACCGGCACCCCTTCCGGCCTGAAAGCCCTCCCTGCAAGAAGGTGTGCAGGAGAGAAGAGG
CCCCGCAITGGGATCTGGGTTCTAGAGGCATGTGATGACTGTAAATGTTCACTGGGTGGGTAGGGAGTGGTAT
CCAGTGTTCAGTGCAGAAATCTTTGGCTTTGCTACCAGTTCATATGATGAGAAATAACGTTCTGCTGAGGTTT
TGTTTCATAAAAAAAAAAAAAAAAAA

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FIGURE 1483

MIVADSECR AELKDYLRFAPGGVGD SGPGEEQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWR LHYLL LHTDG PLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSVFVGC GILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYS LIQRLYPEGGQLLDEKFQAAYSLTY
NTIAMHSGVDTSVLRRAIWNYIHCVF GIRYDDYDGEVNQLLERNLKVYIKTVACYPEKTTRMYNLFWRHFRHS
EKVHVNLLLLLEARMQAALLYALRAITRYMT

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FIGURE 1484

GGGGA~~CT~~CCGGGAGGAGGAACATGCCCGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTACAGTGTACGGCTATT
CCATGGCCTATGGTCTGCCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGGCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
TTTGCCTGCACTCCTCTTGCAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCTTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1485

MAVADLALIPDVIDSDGVFKYVLIRVHSAPRSGRLRQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVTRRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACPLA
GLALPAPAAASGDVLSTRPWRQASLATELNVLPHLPAS

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FIGURE 1486

GGCACGAGGGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATTGAGCCGGGCCCGGCCGGGGCGCCG
AGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTGGCTGACTGGGGAGTCGGCAGGCGG
CAGGAACCATCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCGCTCTGCCTCCGCCTCCTTCTGCTGCTGG
GTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCGCT
CCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGGCTGGTAG
ACAACGTGATCCGCTGGTTTGGAGTGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACC
CCAAGCCAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCCTGGC
TAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTTCATGACTCTGGGCTGTGTCT
ACTGCAGCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGACTTATCACCAGACCCACAC
CCACCTTCTCCTTTTCGAGAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCCCTGTGCACTTCTGTGGCAC
TTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA
ACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACA
ACTGGAAGGTATTCCTGGGTGTGGATACAGGAAGGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGC
CCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAG
CTGGACTGTGTCAGCCACGACTCGAGCACTCATTCTGCTCCCTATGTTATTTCAAGGGCCTCAAGGGCAGCTTT
TCTCAGAATCCTTGATCAAAAAGAGCCAGTGGGCCTGCCCTAGGGTACCATGCAGGACAATTCAAGGACCAGCCT
TTTTACCCTGCAGAAGAAAGACACAATGTGGAGAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAG
TTCCAACCCAGACTAGGGGTGAGGCAGCTAGCTACCTACCTTGCCCAGTGCTGACCCGGACCTCCTCCAGGATA
CAGCACTGGAGTTGGCCACCACCTCTTCTACTTGCTGTCTGAAAAACACCTGACTAGTACAGCTGAGATCTTGG
CTTCTCAACAGGGCAAAGATACCAGGCCTGCTGCTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCAC
AAATAAAGGTATTCGATTTTAAAGATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1487

MRGQRSLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPPVYWLVDNV
IRWFGVGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHC PWLNNCVGHYNHRYFFSFCFFMTLGCVYCS
YGSWDLFREAYAAIETYHQTPPTFSFRERMTHKSLVYLWFLCSSLVALALGALTVWHAVLISRGETSIERHINKK
ERRRLQAKGRVFRNPYNYGCLDNWKVFLGVD TGRHWL TRVLLPSSHLPHGNGMSWEPPPWVTAHSASVMAV

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FIGURE 1488A

GAGCCGGTGGCGCAGGTGTCTGGGGTCTCTGAGCGCCAGCCTGGGAGCATGATTGTGGACAAGCTGCTGGACGAC
AGCCGCGGCGGAGAGGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCTCATGACCAGCCCGCTCAACCTGAGCTAC
TTCTACGGCGCGTCTGCGCGCCCGCGCGCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTTGGGCCCTCGGCG
CCCGGCTCGCCCGGCTCCGACTCCTCCGACTTCTCTCTGCTCTGCTCGGTGTCTCTCTGCGGCGCCGTGGAGTCC
CGGTCTGAGAGCGGCGCGCCGCGGAGCGCCAGCAGTTGAGCCCATATGGGGGTGGCAGGCAGCAGAGAGGC
CCCTTTCAAGGTGTTCGGGTAAAGAACTCAGTGAAGGAACCTCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
TCTGGCCAAGCTGTGGATGATTTTAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTA
TCATACAGTGGGAAAAGGAAAGGGCCCGATTCTGTGTCTGATGGACCTGCTTGCAAAGGCCAGCTCTGTTGCAT
TCCCAATTTTTGACACCACCTCAAACACCAACGCGCGGGGAGAGCATGGAAGATGTTTCATCTCAATGAACCCAAA
CAGGAGAGCAGTGTCTGATCTGCTTCAGAACATTATCAACATTAAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTCTGAGGACTTCCATGGA
GGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACCCCAACAACTCTGGAA
TACAGTCTTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAAACTCTTTGATGGTCCAGAATCACAGTTT
TGCCCAAAACCAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCGAGCT
TCTTCCAGTGTTCAGCAGCAAAATGATGCTCACTTGACAGCTTCAGCATGATGCCAGCAGCGCTGTGAGGCC
ATGGTGGGGCAGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
ACCACACAGTTAGGGAAATCACTTTTTCTAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTTGGCAAATATTTCCCAA
GACCAGTTTCTTTCAAAGGATGCAGATGGTGACAGTTCCTTTCATATTGCTGTTGCCCAAGGGAGAAGGGCACTT
TCCTATGTTCTTGAAGAAAGATGAATGCACTTCACATGCTGGATATTAAAGAGCACAATGGACAGAGTGCCTTT
CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCGAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACA
GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCAGGTGCTTCAGGCGATTTCAGAAG
GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAATATGATGGCCTGACTCCCTTCACTGTGCA
GTCATAGCCCAATGCTGTGTGTCCATGAACCTCCAGAGAAATCAACAGCCTCATTACCTGAAGTTCAGGAGCTT
TACTGAAGAATAAGAGTCTGTTGATACCATTAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTCATTGCGCTCTTTTGGAG
CTGCCCAGTTGCCCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
CAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGCAGACCCAAGTACTCGGAACCTTG
GAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAACAGATCCGACGTATCTGAAGGGAAAG
TCCATTACAGCAGAGAGCTCCACCGTATTAGCTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTCAGTTAG
GCAGTCTGTATCTGTACATAGACCATTTGCCCTATATTGGCAAATGTAAGTTGTTTCTATGAACAAACAT
ATTTAGTTCACTATTATATAGTGGTTATATTAAAGAAAAGAAGAAAAATATCTAATTTCTCTTGGCAGATTG
CATATTTCATACCCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
GTAGCTTTTGTAGTAGGAAAGGACTTTGATTTGTGGCAGCAAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
AGGTAAATTGTAAATGTTTCTTTAAGAAAAGCATGTGAAAGGAAAAGGTAAATACAGCATTGAGGCTTCATTT
GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
AATTTGATCTTTGCAAACGTATATAATTGTTATTTTGTCTTAAAAATATTGTACATACTTGGTTGTTAACAT
GGTCATATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAAGTGAATTGTTGCTATTTAAAAAATTTTACA
ATCTTACTAAGGAGTTTTTATTGTGAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
TCCTTTACTGGCTGAAAGATATATTGGAATTGTAAAGATGCTTTTTCTCATGCATTGAAATTATACATTATTGT
AGGGAATTGCATGCTTTTTTTTTTTTTTCTCCCGAGACAGGCTCTGCTCTGGCGCCAGGCTGGAGTACAGTGG
CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCTACCTGAGCCTTCTGAGTAACTGGGAC
TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCAGGCTG
GTCTTGAACCTCCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACC
ATGCCCCGCTGGCAGTTGCATGGAAGAGAACCTCTTATGGCTTACCCTCTAGAATTTCTAATTTATGTGTTT
TGTTGAAATTTTTGTTTTTTTACCTTTATTGAAACAACAAAAGTCAGTATTGAAACATATCTTCTGTTTTCTG
TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTGAGAAAAGTTTTATTTTTTAATAACATTC
TATTAACATTATTTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTGTGA

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FIGURE 1488B

ATAAATTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAGAAAATCTCATTAGTGAACCTTATCTTTG
CAGCTGAGTACTTAAATTCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTAIGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTACATTGGAAAACT
GATGGTTTTAAATAAACTAATTCATAATAAAAAAAAAAAAAAA

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FIGURE 1489

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQFVEPHMGVGRQQRGPFQGV RVKNSVKELLLHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPDSLSDGPACKRPALLHSQFLTPTPTPGESMEDVHLNEPKQESSADLLQNIINIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPQKQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HYTHKPTLEYSPPFIPPOSPAYEPNLFDPESQFCPNQSLVSLLDQRESENIANPMQTSSSVQQQND AHLHSFS
MMPSSACEAMVGHEMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEE SKLANISQDQFLSKDADGDTFLHI
AVAQGRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVANQHLIVQDLVNIGA QVNTTDCWGRTPLHVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVHELQRNQPHSPEVQELLLKNKSLVDTIKCLIQ
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GADPSTRNLENEQPVHLVPDGPVGEQIRRIKKGKSIQQRAPPY

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FIGURE 1490

ATGGGGAGGTCCTCCATGCGCAGTCATGAGTCGCTTCAAGTTTATCGATATTGGTATCAACTTGACTGACCCTAT
GTTTACAGAGGAATTTATAGGGGGTTCAAAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTCGAGAT
TGGTGTAAAAAGTTTATGATTACAGGTGGAAATCTACAAGACAGTAAAGATGCACTGCATTGGCACAAACAAA
TGGTATGTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAGAATAACCCTGATCTTTA
CTTAAAGGAGTTGCTAAATCTTGCTGAAAACAATAAAGGGAAAGTTGTGGCAATAGGAGAATGCGGACTTGATTT
TGACCGACTGCAGTTTTGTCCCAAAGATACTCAACTCAAATATTTTGAAAAACAGTTTGAAGTGTGAGACAAAC
AAAATTACCAATGTTTCTTCATTGTGAAACTCACATGCTGAATTTTGGACATAATGAAAAGAAATAGAGATCG
GTGTGTAGGGGGAGTGGTGCATTCATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTGATTGACTTGGATCTTTA
TATAGGATTTAATGTTGCTCACTGAAACTGAAGCTAATTTGGAAGTTTGAAGTCAATTCCTAGTGAAAAATT
AATGATTGAGACAGATGCACCTTGGTGTGGAGTCAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATT
TCCTACCAAAAAGAAGTGGGAAAGTGGGCAGTCTTAAAGACAGAAATGAACCCTGCCATATAATTCAAATATT
GGAGATAATGTCAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATATAACAATACTATTAAAGT
ATTTTTTCCTGGAATATTAATTGGTATATGTCCTCCACTTCCATCATGTATGTAAAAATTCATAGTAAACTTCC
TGATAGTTTCAATAAAGAAATTATCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1491

MSRKFIDIGINLTDPMERGIYRGVQKHQDDLQDVIGRAVEIGVKKFMITGGNLQDSKDHLAQTNGMFFSTVG
CHPTRCGEFKNNPDLYLKELLNLAENNGKVVAIGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMLHC
RNSHAEFDIMKRNDRDRCVGGVVHSFDGTKEAAAALIDL DLYIGFNGCSLKTEANLEVLKSIPSEKLMIEDAPW
CGVKSTHAGSKYIRTAFTKKKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFPGI

1641/2682
FIGURE 1492

CGGAGCCCCCTCGGCGGCGCCCGGCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCAACGCCG
AGACCCCCCGCCCCGCGCGCTTCCTCCCGACGCAGAGCAAACCGCCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCGTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCTGTCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCATCTCCACATCCGGCTATGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCACTTCGAAGCCGCTTCATGTACGCTCTC
TATGTCAGTACGACGGCTTCTCCATGCAGCGGTGGTGAAGTGCAACGCCTGGCCTTGTCCCAACTGTGGAC
TGCTTTGTGTCCCGGCCACGGAGAAGACTGTCTTACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCACTGAATTTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAAGCCAGTTTAAACGATT
GCCCAGTTGTTAGATTAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCTTAAAGCCTCAAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCAGGCTGTAGGGGTATTGGTGTAAGGTACTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTCTCTGAGGACAAGAGAAAAAGCCAGGTTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCTCTCGGGTCTTTTGGCAACTTCCCCACGTTAAAGGTGAACATTGGTCTTTTCATTTGCTT
TGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACATTTTGGAAAGTGAAC
TTTGTAGTATGATAGGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCTGTTCAGAGGCTC
AGATTGTAATATGTAATGGTATGTCATTGCTACTATGATTTAATTGAAATATGGTCTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGCTGTTGTATTGTTGTGTCATAGCACCTAACACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTGTGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTGCTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAAAAACAGATTTGGAAAGACT
GGACTCTAAATTCGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTGTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATAACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACCTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAAAGCATTGTGTAATAATAAAGAATAGCTTTAAT
GATATGCTTGTAACATAAAATAATTTGTAATGTATCAAATACATTTAAACATTAAATATAATCTCTATAATAA
AAAAAAAAAAAAA

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FIGURE 1493

MDWGTLQTLGGVNHSTSIGKIWLTVLFI FRIMILVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKF I KGEIKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGF SMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

1643/2682
FIGURE 1494

GAGGCGCCGGCGGCCACGCCGCGGAAGGCGCGGGCCGAGCAGAGCCGGGCGTTGGAGCCCGCGCGCGCATGGAGG
CGTTGCCGGCAGCCCCCTGAGGGCAGCGGGGAGACAAGACCCGGCGACCTCGCGCATCCCTCGAGCCGCCACGCG
CTCTCGCCACCGGGCGGGCAGCGGGCCGCGGAGCCGGCGCGGCCATGCGACGGGCGGGCCAGCAGAAGGAGAACAC
GCTGCTTCACCTCTTCGCCGGCGGGTGTGGAGGCACAGTTGGTGCTATTTTCACTTGTCCACTAGAAAGTCATTAA
GACACGGTTCAGTCTTCAAGATTAGCTCTCCGGACAGTCTACTATCCTCAGGTTTCATCTGGGGACCATTAGTGG
AGCTGGAATGGTGAGACCAACATCCGTGACACCTGGACTCTTTCAGGTTCTGAAGTCGATCTTGGAGAAAGAGGG
ACCAAAGTCACTTTTTAGAGGCTTGGGTCCAAATTTGGTTGGAGTTGCACCATCAAGGGCTGTATACITTTGCATG
TTACTCCAAAGCCAAAGAGCAATTTAATGGCATTTCGTGCCTAACAGCAATATTGTGCATATTTTCTCAGCTGG
CTCTGCAGCTTTTATCACAAATTCCTTAATGAATCCTATATGGATGTTAAAACCCGAATGCAGCTAGAACAGAA
AGTGAGGGGCTCTAAGCAGATGAATACACTCCAGTGTGCTCGTTACGTTTACCAGACCGAAGGCATTCTGGGCTT
CTATAGAGGATTAACTGCCCTCGTATGCTGGAATTTCCGAACTATAATCTGCTTTGCTATTTATGAAAGTTTAAA
GAAGTATCTGAAAGAAGCTCCATTAGCCTCTTCTGCAAATGGGACTGAGAAAAATTCACAAGTTTTTTGGACT
TATGGCAGCTGCTGCTCTTTCTAAGGGCTGTGCCTCCTGCATTGCTTATCCACACGAAGTCATAAGGACGAGGCT
CCGGGAAGAGGGCACCAAGTACAAGTCTTTTGTCCAGACGGCGCGCCTGGTGTTCGGGAAGAAGGCTACCTTGC
CTTTTATAGAGGACTGTTTGGCCAGCTTATCCGGCAGATCCCAAATACTGCCATTGTGTTGTCTACTTATGAGTT
AATTGTGTACCTGTTAGAAGACCGTACTCAGTAACAGGCCGGAAAATTGTGCTCTAGAAGAATAAACTGAAAAA
CTCTAGAGAATTTTTTTTCCCATTTGATGTTTAGAAAGTTTGAGACTGAAACAGGAAAGGCCATAAAATATCTGG
TTCATATCACCTGTTGGACATTTCCTTTTGGATTGATGCTTTCTGGAAGGTTTAAATTCATTACGTTAATAGTT
AATTATAACTTTTTTTTAACTTAAGAGGATTCAGGGTTAAGCACCACTAAATTAATCATGCTATTTAATTTAA
GTATAACC

1644/2682
FIGURE 1495

MATGGQQKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSVTPGLF
QVLKSILEKEGPKSLFRGLGPNLVGVAPSRAVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAFITNSLMNPIW
MVKTRMQLEQKVRGSKQMNTLQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANG
TEKNSTSFGLMAAAALS KGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIP
NTAIVLSTYELIVYLLEDRTQ

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FIGURE 1496

GGCAGCCGTCCTGTGCCACCCAGAGCCGGCGGGCCGCTAGGTCCCCGGAGACCCTGCTATCGTGCGTGCGGGCGCC
GTGGGGGCTCATCTCCCCGCGTCCGGCTTGGATATCTTCGGGGACCTGAAGAAGATGAACAAGCGCCAGCTCTAT
TACCAGGTTTTAACTTCGCCATGATCGTGTCTTCTGCACTCATGATATGGAAAGGCTTGATCGTGCTCACAGGC
AGTGAGAGCCCCATCGTGGTGGTGCTGAGTGGCAGTATGGAGCCGGCCTTTCACAGAGGAGACCTCCTGTTCTC
ACAAATTTCCGGGAAGACCCAATCAGAGCTGGTGAAATAGTTGTTTTTAAAGTTGAAGGACGAGACATTCCAATA
GTTACAGAGTAATCAAAGTTCATGAAAAAGATAATGGAGACATCAAATTTCTGACTAAAGGAGATAATAATGAA
GTTGATGATAGAGGCTTGTACAAAGAAGGCCAGAACTGGCTGGAAAAGAAGGACGTGGTGGGAAGAGCAAGAGGG
TTTTTACCATATGTTGGTATGGTCACCATAATAATGAATGACTATCCAAAATTCAGTATGCTCTTTTGGCTGTA
ATGGGTGCATATGTGTTACTAAAACGTGAATCCTTAAATGAGAAGCAGTTCCTGGGACCAGATTGAAATGAATTC
TGTTGAAAAAGAGAAAACTAATATATTTGAGATGTTCCATTTTCTGTATAAAAGGGAACAGTGTGGAGATGTTT
TTGTCTTGTCCAAATAAAAGATTCACCAGTAAAAAAAAAAAAA

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FIGURE 1497

MVRAGAVGAHLPASGLDIFGDLKMMNKRQLYYQVLNFAMIVSSALMIWKGLIVLTGSESPIVVVLSGSMEPAFHR
GDLLFLT NFREDPIRAGEIVVFKVEGRDIPVHRVIKVHEKDNGDIKFLTKGDNNEVDDRGLYKEGQNWLEKKDV
VGRARGFLPYVGMVTIIMNDYPKFKYALLAVMGAYVLLKRES

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FIGURE 1498

GCGGAGCCGGGGCTGGAGAGCGGGACCACTGCGGATCTCGGAAGGAAGAAATGATGTAATCACTCATCCAAAC
TTTAAGGTCAAAGGTGAGAAGGAAGGTGAGGAAGAACATGGCCTGGCCAAATGTTTTCAAAGAGGGTCTCTGCT
GTCCAGTTCAGCCATCATCATGTTGTAGTGTTCCTGCTCACTTTCTTCAGTTATTGCTTGCTCCATGCTTCACG
AAAAACATTTAGCAATGTCAAAGTCAGTATCTCTGAGCAGTGGACCCCAAGTGCTTTTAAACAGTCAGTTGAGCT
GCCTGTGGAGATCTGGAGCAGCAACCATTGTTCCCCAGTGCAGAGAAAGCGACTCTTTTCCCTCGGCACACTGGA
TACCATTTTCTCTTCTCTATGCTGTGGGCTATTATCAGTGGCATCGTTGGGGATCGGTTGAATTTGCGATG
GGTTCTGTCTTTTGGCATGTGCTCTTCTGCATTAGTGGTGTGTTGCTTTTGGTGGCTCACAGAAATGGCTGCGTTT
CTACAACAAATGGCTGTACTGCTGCCTGTGGATTGTGAACGGCTGCTGCAGTCCACTGGTTGGCCCTGTGTGGT
TGCTGTTATGGGCAACTGGTTTGGGAAAGCCGAGCAGGAGTTGTTTTTGGTCTCTGGAGTGCCTGTGCTTCGGT
GGGCAACATTTTGGGAGCGTGCCTAGCTTCTCTGTTCTTTCAGTATGGTTATGAGTATGCCTTTTCTGGTGACGGC
GTCTGTGCAGTTTGTCTGGTGGGATCGTTATCTTCTTTGGACTCCTGGTGTACCAGAAGAAATGGTCTCTCGGG
TATTGAGGCAGAAGAAAACITTTGAAGAAGACTCACACAGGCCATTAATTAATGGTGGTGAAAATGAAGACGAATA
TGAGCCGAATTAATTCAATCCAAGATGATAGTTCTGTTGCCCAAGTCAAGGCGATAAGCTTCTACCAGGCATGTTG
CCTTCTGGAGTACATACCGTACTCACTGGCCTACGCTGCTTGAAGTTAGTGAATTACTCCTTCTTCTCTGGCT
CCCCTTTTATCTGAGTAACAACITTCGGCTGGAAGGAGCGGAAGCCGACAAGCTGTCCATTTGGTACGACGTTGG
AGGGATCATAGTATTTAGTGTCTCTGATCCGGGACAAGCTAGGATGGATGTGGGTTTTCTACTTTTTCTCTCA
TGACAAGTTGTACAATTGTGTTTATCTCGCCATTAATAGTGAGGGAAATATTCTCTCTCGTGCTAAGGAGACAGG
CTCACATATTGAGGGAGTGACCGGTGCGCGAGACAGAAAGAACAATGTCAGCCACATCAGGACCGCTGGGGCT
TCGAGTCTGCCCTAATTTGGGTTTGTCTAGGAGCTCCAGCCTGATCTTGGATTGTGAGGCGTCTCTCAACACTGC
CAGCCACCTGAGATGCTGACCAGCAGTGAAGGCTGCACTAGTTTTCTACACTACAGGAATTACTGTTGATGATTT
TTGCTGTTGTTTCATGAATGTGCCGAGTGACTTCTGACTCTGCCAGCATCTTTGACCTCTGACTCTGCCCGCTC
TTTGTGTTGGCCTATTGAGGTTTAGCGTTTTAACCTTAAGTGTGTTTGGACTTGAACCTTCTCTAGCCTTGAAA
ATGGAGTGAACAGGAGGCAAAGCCACGCGTGGTTTGTGTTGGTGGTATGTTCCACAAATGAAGAGATCAATGCA
TTTTGCTTTGGTAAATGAGTTTACAGAGAGTGGGTCACTTTGAAGCATCAAATCCTGATCAAATGCTCAAGCTGG
ACCGAGCTGCAAGCCTGCCTTGGACAAAGAATCCCTCTGTTCACTGTGGTGGGAAAGATCACACTACATGCCTGT
TGATTGGCTCAGTCACTCTGTGTCTGATCTAAACGTCATTACGCCCTAGAAGCATGAATTGCTTCAAATTATGT
CAACTTGTTCTCTTCCATTTTCAATCAAATTAACCTTTGACTCCTGGAAGTATTGAGTCTTCTTTCAAGGACCAT
AAGGTACATCAGTTATCTTGAACATTCTGACGTGTAAAGGACCATAAGGTACATCAATTTATCTTGAACATTCGGA
CGTGTAACTCACAGCCGAAGCACTCCATCCAGATTTGTGTCTGGGAACCTTAGGATCCTCTAGGAAGCTAATC
TGCTTAGTCTATTTTTAGAGGATTGATCTCTGGCACAACCAGCTTCTGAGTTACCTCAGCAGAAGACTAGAAT
TAGAGAAAAGGGAAAGACCTTTTCTTCTAGTAAGTGTCAAGTACAGATGCTCTTTGACTTATGATGGGGTTATGT
CCCAGTAAACCCATTGGAAGTCAAATGCATTTAATACCCCTGACTGGACACCACAGCTTAGCCTCGTCCACCCTA
AATGTACTCAGAACACTTAGAATTGCCACAGTTGGGCAGAATCATCTAACACAAACTCTATTTTATAATCGAGT
GTTGAATATATCATGTAATTTATTGAATATTGTACATTATGTTGAAATTGCAACCAATTTACACCAATTGTAAAGT
CCAAAAATCAGAAGCTGAGGACTGTCTGTACATGACATTGAATCAGATGAATGGATTACTAGGGCCTGAGGGGTG
TCCGTTCTTTAGAAAAATGTAGAGTATATATCTTCAGGGCTGTGAATTCATACTAGTTATCAATATTTTAAAG
ATCATTCTGTATATACATATTTTAAATTATGCAAGCAAACTAGGAGGAGAATGTGCAATTTTGAAGGGATACCTAA
TTTGCAATTCGGTTAGGGGATATTTTCAACCTCTTGCTTTTACTCTGATATGGGGTGTGTTTATGAACTTGTTA
ATGTTATTTAATCATGCAGATTTCCAATCAGTGATTGCTCATTTACTGACAAAAGGGAAAATACGAAACACAG
AAAGGGAAAATAAAGTACTGACTTTTATAATGAAAAAAGGGGAAAAA

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FIGURE 1499

MAWPNVFQRGSLLSQFSHHHVVFLLTFFSYSLHASKRTFSNVKVSISEQWTPSAFNTSVELPVEIWSSNHLFP
SAEKATLFLGTLDTIFLSYAVGLFISGIVGDRNLNRWVLSFGMCSSALVVVFEGALTEWLRFYNKWLYCCLWIV
NGLLQSTGWPCVVAVMGNWFGKAGRGVVFGLWSACASVGNILGACCLASSVLQYGYEYAFLVITASVQFAGGIVIFF
GLLVSPREEIGLSGIEAENFEEDSHRPLINGGENEDEYEPNYSIQDDSSVAQVKAISFYQACCLPGVIPYSLAYA
CLKLVNYSFFFWLPFYLSNNFGWKEAEADKLSIWYDVGGIIVFSVSDPGQARMDVGFLFHSHDKLYNCVYLAIN
SEGNILSRACKETGSHIEGVTGARETERTMSATSGPLGLRVCPNLGLSRSSSLILDQASLNTASHLRC

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FIGURE 1500

GTCAGGTGGCGTTTGCTGTGGCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTG
CCCTGGCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCCGGGGCGCGGGCTGGGTGGCGGCGGG
CCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGGGTCCGCGCGGGGCGACCGCGAGCT
CGGGATACGCTCTTCGAAGTCCGAGAAGACTTAACTGATGGTTCATATGATGATGTTCTAAATGCTGAACAAC
TCAGAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAA
CAATGCAGCCTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAAACAAAATCAA
CCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAAT
CAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTTCTCTGAACCTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACCAGCACATGCTTCACAGTTACATTACAGACCT
GTTCCAGGTGTTACTTACTGGAATGGAAACACGAAGGTGCAAGTTTTGAAACTGCTTTTGAATTTGCTGAAAA
TCCAGCCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTATCATTCCCTTTTCCTTTATGACAGCCACGTAGC
AAAGGAGATTCTTCTCGAGTACTTACGCTATTTTCAGAAATATAAAGAAGTGCCTCAAAATAGAAGGCCATTTAGC
TGTGCAGCCTACTTTCACTGAAGGTTTATTGTTTTCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGC
TTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATCTGATTGGTCATATT
TTTCCAAAGAGTAATGCAGTCTGGATATAAATGTATTTCTGTCTTCCTTATAAGGGGATTCTCCAGCTGCTAA
ATTTAAACAGTAAATATCACATTTTGTCTTAACACAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1501

MGGPRGAGWVAAGLLLGAGACYCIYRLTRGRRRGDRELGIRSSKSAEDLTDGSYDDVLNAEQQLKLLYLLESTED
PVIIERALITLGNNAAFSVNQAIIRELGGIPIVANKINHSNQSIIKEKALNALNNLSVNVENQIKIKIYISQVCED
VFSGLNSAVQLAGLTLLTNMTVTNDHQHMLHSYITDLFQVLLTGNGNTKVQVLKLLNLSENPAITEGLLRAQV
DSSFLSLYDSHVAKEILLRVLTLFQNIKNCLKIEGHLAVQPTFTEGSLFFLLHGEECAQKIRALVDHHDAAEVKEK
VVTIIPKI

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FIGURE 1502

GGCACGAGGCCAGGTAATTTGAGCAAAGGCCACAGTGAACCTCCGGCGTGGCTGAGGAAGGAGGAGGCACCCACA
GGCTGCTGGGAGGAGAGCATAAGGCTCAAAATGGAAAATCATAAATCCAATAATAAGGAAAACATAACAATTGTT
GATATATCCAGAAAAATTAACCAGCTTCCAGAAGCAGAAAGGAATCTACTTGAAAATGGATCGGTTTATGTTGGA
TTAAATGCTGCTCTTTTGGCCTCATAGCAAACAGTCTTTTTCGACGCATCTTGAATGTGACAAAGGCTCGCATA
GCTGCTGGCTTACCAATGGCAGGGATACCTTTTCTTACAACAGACTTAACCTTACAGATGTTTTGTAAGTTTTCTT
TTGAATACAGGTGATTTGGATTGTGAAACCTGTACCATAACACGGAGTGGACTGACTGGTCTTGTATTGGTGGT
CTATACCCTGTTTTCTTGGCTATACCTGTAAATGGTGGTCTAGCAGCCAGGTATCAATCAGCTCTGTTACCACAC
AAAGGGAACATCTTAAGTTACTGGATTAGAACTTCTAAGCCTGTCTTTAGAAAGATGTTATTTCTATTTTGCTC
CAGACTATGTTTTAGCATACTTGGGTCTGAACAATATAAACTACTTATAAAGGCCCTTCAGTTATCTGAACCT
GGCAAAGAAATTCACTGATTTTAAACAAATATGTAAACAAAAATAAAATGGTAAAAACAGAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1503

MENHKSNNKENITIVDISRKINQLPEAERNLLENGSVYVGLNAAALCGLIANS LFRRILNVTKARIAAGLPMAGIP
FLT TDLTYRCFVSFPLNTGDLDCECTITRSGLTGLVIGGLYPVFLAIPVNGGLAARYQSALLPHKGNILSYWIR
TSKPVFRKMLFPILLQTMFSAYLGSEQYKLLIKALQLSEPGKEIH

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FIGURE 1504

CTGCCAGCACTTAACTTTTCCCCCTACCCCTGCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCCTCAGCCACTT
CCTTCCTTCGCCTCACCCCTCCCCAGTGCACTGAAGAAGGTAAACCGGGTCCAGACCCACGCGGCCAGTTCTCCG
GCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTAAACCTCTTAGTGGAGGAAATTCA
TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTCCGTGATGATAAATGTGC
CAACCTCTTTGAAGCATTGGTAGGAACCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCT
GCTTCTGCAAGGTGTTTCATGATGATGTTGACATTATATTACTGCAAGATTAAATGTGGTTTACATATCTTTATGTA
CTGCCATTTTTTGTCTTCTGGTAAACTGGAATATAAAGTGAAAGAACAACATTGAAACATACTTAATGTATTTTT
ATAGAACTTTGTAAACGAAAGGAGATTTCATGTTTTAGAACTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATG
TATGATGCTATAAAATAAATCCIATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGC
GGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTCTATAGATATTTGACATTCTGCGAAAGCAAC
AAGCAAACGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAGTGTCAAATTTA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1505

CQHLTFPPTLLLLHSRLSLCLSHFLPSPHPPQCTEEGNRVQTHAAPVLRREGKPRREAAMNVDHEVNLLVEEIH
RLGSKNADGKLSVKFGVLFRRDDKCANLFEALVGTLKAAKRRKIVTYPGELLQGVHDDVDIILLQD

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FIGURE 1506A

CCTGCGGCTCCCCGGCTTTTCGGAGCCCGGGGCGGCTGTGGCGCGGAGCCCGCGCCGACTGCGCCTCTTT
GGACCTTGAGGGGAAACATGCGTTTGC SKWGGATCRWTTGAAATCTGAGKYTRGGATMCSMGSCCGCCYGCCTG
MYTCKKCCGMSSCGCGGGYTTTTTCSTATTTTTCCTTTTGCTTTTTTTCCTTTTCCCTCCGGGTCTCCTTTTT
GACTCCCTCCCCCTTTATGCTCGCCAGCCCTCCCCCTGCTGCTGAGAAGTGGGGGAGGGTCTCGGCCTCCAGGT
TCCCGCCCCACCGGGGCCCGGGCGAGCATGGGGGGCAAGCAGAGCACGGCGGCCCGCTCCCGGGGCCCTTCCCG
GGGTCTCCACCGATGACAGCGCCGTGCCGCCCGGGAGGGGCGCCCCATTTCGGGCACTACCGGACGGGCGGC
GGGGCCATGGGGCTGCGCAGCCGCTCGGTGAGTCTGGTGGCAGGCATGGGCATGGACCCAGCACGGCCGGGGG
GTGCCCTTTGGCCTCTACACCCCGCCTCCCGGGGACCGGCGACTCCGAGAGGGCGCCCGGGCGGAGGGTCT
GCGTCCGACTCCACCTATGCCCATGGCAATGGTTACCAGGAGACGGGCGGCGGTACCATAGAGACGGGATGCTG
TACCTGGGCTCCCGAGCCTCGCTGGCGGATGCTCTACCTCTGCACATCGACCCAGGTGGTTGAGCTCGCATAGT
GGTTTCAAGTGGCCCATTTTGCTCCAAGTCTGTGGCTTCTGACGAGATGGAATGCATTTATAATGTGTTTGAGC
AAACCTCGCCTCTCTTACAACGATGATGTGCTGACTAAAGACGCGGGTGAGTGTGTGATCTGCCTGGAGGAGCTG
CTGCAGGGGACACGATAGCCAGGCTGCCCTGCCCTGTGCATCTATCAAAAAGCTGCATAGACTCGTGGTTTGAA
GTGAACAGATCTTGTCCGGAACACCCCTGCGGACTGACCTGCGGGCTTGTCTGCTGACTCCTCTCAAAGGGACAGA
GCGCCCTGTCTCCAGGGAGGAGGCTCACCGGACCCTGGGGCAGAGCTGAGCTTGGGACACCAGCGGGAACAGGGC
ACCCCTTCTGCACTGACTTCCAGATCATGGTTCTCCCTTCCCTCCCTGAGGACACCAAATTTGATGAGAGCAAGTT
TGAGAGAAGAATGAATCAACTGCTATCCTTCCCTCACCCCTCAGCCAGGAGGAAAGGGCATTTTCTTTTTCA
TCTTTGAAAGGCATTGTGGGTCTGTCTTTAAAGTGTTTACAAAAAAATATATAAAAAAAGTCTAGTGTCTG
ACTGGTGTCTTCCCTCGTGATGTTTACAGCTGTCTTGTCTGCCAGCCATAACCCACTAGTGACAGACGAAC
ACAGCTAAGCCTCGCTGCCAGCCTTCTGACGGCGGGGAGCAGCACGGTCTCTTCCCTGCCCAACTGGCCCTC
TCCACCACCAACTTCTCTACTTTGGGTTTGGTTTGGTTTTTCCCTCTATTTTTCTGGCTGGTTTTTGTCTTTTT
CTCCCTTGAGACCCTAATATCTTGACTTCATTGCCAAAAACAACCCATTGAGAACTTTCTTCTACTGATCCC
ATCTCTTTTCCCTTCTTTCCCTCGTTCCGGTCAGTTCAGAGGATTTAACAATCACAAGTGTCTGCAAAAAATG
CCTGAACATTATTCTTAGGCCCTCGTGGATTTTTTTTTTTTTCAGAAAACTTAAACAAAAAAGACTTACTAAGAAA
TATGTACAGTACCCCTGTTTTCAGGCACTATGTTTGAGAACATTTTAGCCATTGATGTTACACGTGGCATCAG
CCCATGCAAGATAGGTTTTCTGTATTTATATATATAAAAAAATAAAAAAAGCTTATAAAATGTTTAAAAAATGTTT
AAAGCTTGGGAGAAAAAGCTTTCTTTCATTAGTCAAGGTGTTTTGATATGGTATTAAAAATGTCTAATAAAGATGGC
ACTGCGTGATTTTATTTTAAAGTGTATACAATCAAGAAATGGGGGCAAGGGGCTGCCCCCACTCCCTCA
CCTACCTCCTTAGCATTCTTCAGGCTGCTACTCGGGGCTCCAGGTGTGTGAATTGGTCTCAGATAGTCAGGCC
TGGGTGGAGGAGTGGCAAGTCARGCGTGCCTCTACAAGCTTCTAACCTCTTAAGCATCATGGAACCAAGTCAG
CCCTCTGTGGAGTCATTGTGCCGACCTCTGAAAAGATCTGCAGGGGCCAARATGTTGCARCCACCSGAGGCTGC
ARGGWYTGTTGTTCTTCCAGGTGTGGGCCAGCCCCCTCTTYCAGCCTTTGCTCCCCATCCACGTTCCACT
CKCCCTGCCTGGTGKTTGCGTCTCAGTGCTTGAMTCACGGGCATGCTTCATTGAGGCCAGGAAGAGGCCCTGGT
TTGGGGCTGTGCCAGCTTCAGAGCCCTTGAACCAGAACCAACTGCTCAGGCTCACAAAAGTTGGCAAAATGCGGG
CTGGGCAGGCAGCTCGGGGAGGAGCAGCAGTGCAGGCCTGGCCTGTGXTCCCCGTGCCAGCGGGYCSCGGAG
CAGCATTCCAGAGCCTCTGCAGAGCCAGCGAAGGAAAGCTCTAGAGGGAGACGACTCCACCGCCTCTCTGCTCT
GACCCCTTCTCAGGCCCCGCTGATGTGCTGGACCATCCCCCTGCTGCCACGGCCCCCTGGCTCCGCAGTCAACCTCC
ATCAGATGCTTCCAGAAGCACCTACTCTGTGCAAGGGCATTACAAACAGGCCAGTGGGCAACGTGAGCCAGGGC
CAGCGGAGAAACACTAAAGAAGACTTCGGTGGTTTCAGAGCCTGGGTCTCAGCGCGGGACCCGCTGCGGGTTGAAG
ACCTTKGGGGCTKTTGTGAGTYGGTGGCAGGAACGTGGGCTYTAGAMTGTGCATTGAGGCTCTCCTACTTGGCAG
AATGATCTTGGGGAAACGACTTCATCTGAACCTCAGATATTTACATGTGAAGCGGGGACAAAACCATGCAGCTC
AGAGGTCCCTGTGGGGGCTGGGGGAGCTGCCCTGCAGGTCTTGGCACATGCACAGCAGGCTCCCCATAGCTTTGT
CACCACAAAGGGCACTGTTCTATTACAGCACCTCTGCTTCTGCCTGGCAACTGTGTCTCCCTGTGCTATATTT
AATTCCACCAGCAAAGCTGKCGGAGGCAGGGCCAGCCTGAAAGGAGATCTCCTTGCTGACCCCTGGGACCTGG
GAAATGGAGGCTTCATGTGCCCGCTTGSSKYTTAAAGCCTGCTGGCTTTGGCAGTGCCATGGGTGAGCCGAGCA
GCTGTGAGGTGGGTGGGGCAGGGCTGTAGCCACGCCGGGTGCTATTCCAGGCTCTAGGGGCTGGTGTCTATCCCC
ACCCCCAGCGACTTCCGTCTACCTGGCATGTGCAGCCCTCTGCCGGCTGTGGTGTCTGAATTTGGACCCAGG
TTGCCTGCTCTTGTGTGGGGGTGGGATTGGGGCTGTCTGTGTTTCCAGGTGGAGCTCATGTTTGTGATCCTCT

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FIGURE 1506B

ATCTGGACAGCTCTCCAGAATCCTGTGTTGCCCTGTTCTGCCTTTCTGGGATGGGAGAGAAGGTGAGGGAGCCG
GCGAGCCAGGTTCTACCCCTCTCTGCTAAGGGCCTAGCACGCTTTGATGAGGTTCTGGACGTGAGACCCTCACAA
AGACCAACCATTCCTCTAATAGCCATTTAACGGTACTGCAGTTCATGGGAAAATGCCTCATTCTTAGGAGATAG
ATGCTGGATTATATAGGTGAATGCCTTCAAGAAATGTGTAATTTAATTCCAAATAGTCCCCC AAAATACACAA
AGCAAATAAGGCCAAAATGTTTCATTGTTGAATCTGCAGTGGCTGGTATTTTCAGTGAACAGTGTACTGTTCTTTC
AACTTTTCTGTATGTTTGGAAATTTTTCTTAATAAAAGATTGTGGGAAATGGTCATTGCTGAGCGCCTCCTAGTT
GCCAGGCACTGGAGGGCGCATCAAAGAAGAGTCCTACCCAGGAGGGAGAGCGCAGCTGCTGCAGGATTCTCGCCT
GGAAGAGTGGGTGGCTGGCTGGCTGGCTGGAAGGGGAGGGGCGAGAGGGCTGTCTCGGTGATGAGCACACGCGTG
CTGGGGTGGTTTGGGGAGAGGGCTGAGATTTGTCACCAGTGAGCCCTTGGCACGGTCTCTGCTCCCCACCAGGGC
AGCACGGGACAGAAACGTCACGGAGGAGTAGCCTC

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FIGURE 1507

MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHFGHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVPFGLYTPA
SRGTGDSERAPGGGGSASDSTYAHGNGYQETGGGHHRDGMPLYLGSRASLADALPLHIAPRWFSSHSGFKCPICSK
SVASDEMEMHFIMCLSKPRLSYNDDVLTKDAGECVICLEELLQGD TIARLPCLCIYHKSCIDSWFEVNRSCPEHP
AD

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FIGURE 1508

ACGAGGATCCGGGTTCCAACCCAGGGGGAAAAATCGGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAGA
AGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCCGATGGCACCTACTGTTTCCGTCTGC
ACAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCAATATTTCCGGGGACAAGCTGGTGT
CGCTGGGGACCTGCTTTGGAAAATTTACTATAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTTG
CACCTTATGCCAAGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTG
TGGTATTTTCATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAAACGAAGCCATTCCAA
GGACAGACGGCTGTATGGAAAGCCGAGCTTTGTTTCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTTG
TCAACACTCTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTA
TTATATACAGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATC
AGAGGGGCTTCTTGTCTGAGAAAATAGGTTCAAAATCATTGGAAACCAGGAACAAGAATAGCTTATTGTTATCTGT
GATAACACTGTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAA
TAAACCACATGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTG
GTGTGTGGTATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCA
TTCAGCTTTAATAAGGTTTCATTTTCTTCTGTTTAAAAAGACACAAAACCTTGAAAATCAGCTTTGGCCATCTACCT
GAGAATTAGAAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGGCTCGCGCCTGTAATC
CCAGCACTTTGGGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TGAGGCAGGAGAATGGCTTGAAGTGGGAAGCAGAGCTTGCAAGTGAAGCAAGATGGTGCCATTGCACTCCAGCCT
GGGCGTGACAGAGTGAGACTCCATCTGATTGTAAAGCATCTAGTACAGTGTCCAGTGCCTTGGAATGATAGGTA
TGGAATAAATGGTAATTATTTTATATTAT
AATTTGATTTTATTACCTTCTTTTTTACAAGCTGTTTTCTCAGTATTTTTTCTTGATGGGATGACGCTAGGCTGG
AAAGTTTTTTTCATCACTATGATTTTATAAAACAATTTTTTCTATGAACCTTTACTTACTTGACTGGATTGGACT
AAAAGCACTGATCAGAGGCCACGACATAAAAAATTCAGTCCCTTTGTCTTCCCCGTGCCTCCCAAAGTTACTTTA
AGATCCTTAGAATATTTCTTTAAATATTTTATAGACAAAAATTTAAAGACTATCTGTATTGCAAAATTAACATA
TTTTCTTTAATGAATATATTGCTTATTTTAAAGTCCAAAGGTGAAGTCTTTAAGAATAAAACATTACCAACTGCTG
CTTTTATATGTAAAAAACAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA

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FIGURE 1509

MRPLTEEETRVMFEEKIACYIGENQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFR LHVTALDYLAPYAKGFGVAAKSTQDCRKVDPMIAIVVFHQADIGEYVRHEETLT

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FIGURE 1510

AACAGATCTTCAATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACCACACACCAGGAACCTCTTTC
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC
AATGCCAGATGGGTAAAGCAAACATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCCT
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG
GAGATAGTAGCCTGGTGTGTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC
CGTTTATAGGAGCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG
TGATGTACTATAAGAGTAAAGAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGAA
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA
TTCTGTTCATCCCATGGTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAAGTCCGGCTTAGAATACTTTG
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCAGAGAGTTATATAGTGGCATCAGTGGGCTAGAAC
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA
GGACAACCTGGAGCCCAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGAATCCGTTTTG
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAGTCGCAGTGACACTATCGATACTGTTTCTGTGCCCT
TATGTTTTTTCGGTATTTTGTAGCTGAACCTGGCAGCTATGAACATCAAAGTGAACTGGATGTTGTTTAACTTGAT
GTTGACCTTTTGGATTAAGGGGACTATCAGATTAAAGCAAATGTAATTTAATTCAATGAAGATATCATTACCA
GGTTACTCTTGAGATTTTTCAACGGTGTAGAAGTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA
ATCTCTCTGGTAGATTAACATTGACAATGATTTTCTGTATCTTTGTTCAAAAAGTTCATGCTCTCTCAAAATA
TGAAATATTGATAAATGGAAGAGCATAACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCCTGCTCTC
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA
CCACAATCAGGGTAATAAACATACCTGTCATCTCCACAAGTTTCTCTCTGCCCCCTTTGTTTTTTGCTTTTTGGTT
GCTGTTGAGTTTTTTGTTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG
TGCACGATATAGTATTGTTAATTCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGCTTGCATAAC
TGAAGCTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCCCTAGCAACCACCTTCTACCTGTTTCTATGA
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCTGTGACTGGCTTATTTCACTTAGCA
TAGTGAATAAAGATTATCCATTTTGAAGCCAGGCATGGTGTGTGCATCTATAGTCCCTGCTATTTGAGAGGC
TGAGGTGGGAGGATCATTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCTGTCTTGAAGAC
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTTCAT
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTCTGTGTACAGTATTTTATTGTATGGATTACCATCCCCTGT
GTATTTAAGTTGTTCCATTCTTGGCCATTATAACTTTTTTCTGCAAAATATTCTGGTGACTTATCTTTGGCCATT
ATAAAGTGTGATAATAAAAAAAAAAAAAAAAAA

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FIGURE 1511

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFFLLTYQDRSDNKLYRLQT
PQSPLVRPSMYDYYMDNYPIGTNAIVAVISYTGDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSS
LVFGIKPGDPRVLQKLDDGLPFIGAKLQYGDPPYSYLNLNTGESFVMMYKSKENCVVVDNIKVCSNDTGSCKFKC
VCITMRVPRNPTTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH
GLCHDATPPIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG
ARDRVNTQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA
QQKIQLYSV

AGCTGCGGCGCTGGGCTGGCGGGCGCGAGTCCACGTGCTCCCGCGGGCCGGTTGAAACCGTTGGCGGGCGCTGGC
TGAGAGGCAATGTTTGCTGTCTTCCATTGGAGTGAAGTCTACATGACGGCTTTTTGACAAGACTTAAAA
CTGTCTTGATAGAGAATATTTAGCCATTACCTAAAAATCGTATTTTTTACATGCAATGCATGTGGTGAATCAG
TGAAGAAAATACAAGTGGAAGCATGTGTCTGTTTGCAGAACTGTGAATGCCTTTCTTGATTGACTGCGGT
AAGATTTCTGGGGCGATGACTATAAAAAACCACGTGAAATGCATAAGTGAAGATCAGAAGTATGGTGGCAAAGGCT
ATGAAGGTAAACCCACAAAGGCGACATCAAACAGCAGGCGTGGATTGAGAAAATTAGTGAATTAATAAAGAGAG
CCAATGTCAGCCCCAAAGTGAGAGAACTTTAGAGCAAATTAGTGCTTTTGACAACGTTCCCAGGAAAAAGGCCAA
AATTTGAGAAATTGGATGAAGAAGTAAAGGTTTATAATGAATCCATTCTGGACAGGTTGGAATATCTTTT
CTGAAGCTTCCAACAGCGAACCAGTCAATAAGGAACAGGATCAACGGCCACTCCACCCAGTGGCAAAATCCACATG
CAGAAAATCTCCACCAAGGTTCCAGCTCCAAAGTGAAAGACGCGGTGGAACAGCAAGGGGAGGTGAAGAAGAATA
AAAGAGAAAGAAAGGAAGAACGGCAGAGAAAAGGAAAAGAGAAAAGAAAGAACTAAAGTTAGAAAACCACAGG
AAAAGTCAAGGAATCAGAAGCCTAAGAAGCGCAAAAAGGGACAGGAGGCTGACCTTGAGGCTGTGTGGGAGGAAG
TCCCTGAGGCCAATGGCTCTGCAGGGAAGAGGAGCAAGAAGAAGAGCAGCGCAAGGACAGCGCCAGTGAGGAAG
AGGCACGCGTGGGCGCAGGGAAGAGGAAGCGGAGGCACTCGGAAGTTGAAACAGATTCTAAGAAGAAAAAGATGA
AGCTCCAGAGCATCCTGAGGGCGGAGAACAGAGACGATGAGGCTCCTGCAAAAGGTAAATCAACTGGAAGG
GAACTATTAAAGCAATTCTGAAACAGGCCCCAGACAATGAAATAACCATCAAAAAGCTAAGGAAAAAGGTTTTAG
CTAGTACTACACAGTGACAGATGAGCATCACAGATCCGAAGAGGAAGTCTGCTCATCTTTAACAGAAAAATCA
GCAAGAACCCTACCTTTAAGTTATTAAAGGACAAAGTCAAGCTTGTGAAATGGAACATTTGTGTATTTAAAAATTG
AATCCATTCTGCTGACTTCTTCTTTCTGCTGTTTATAAAATGTGTAATGAATTCTAACAACCTCAATTTTGC
TTTTTGAAGCTGTATTTTAAAGTTAAGAAAAATATATTTTTTGGTATAACTTTTATGAGAAAAATAAAAATATTCT
GGTCCAAAAA
AAAAA

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FIGURE 1513

MVFFTCNACGESVKKIQVEKHVSVCRNCECLSCIDCGKDFWGDYKNHVKCISEDQKYGGKGYEGKTHKGD IKQQ
AWIQKISELIKRPNVSPKVRELLEQISAFDNVPRKKAKFQNWKMNSLKVHNESILDQVWNIFSEASNSEPVNKEQ
DQRPLHPVANPHAEISTKVPASKVKDAVEQQGEVKKNKRRERKEERQKKRKREKKELKLENHQENSRNQPKPKRKK
GQEADLEAGGEEVPEANGSAGKRSKKKQKQDSASEEEARVGAGKRKRHHSEVETDSKKKKMKLPEHPEGGEPEP
DEAPAKGKFNWKGTIKAILKQAPDNEITIKLRKKVLAQYYTVTDEHHRSEEELLVIFNKKISKNP TFKLLKDKV
KLVK

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FIGURE 1514

TCTCGCTCAGGCTCGGTTTTACCCCGGAGTCTATTGGAAGGGGGCTGCTACGTCAGCGCGTCTCAGCGTAAGACG
GCGCTATTCCGCTGTAACAGCTTCCGGCGGGTCCTGGATGTTGATGTCCTGCATCTAACGCGGTGTAACCCCGGA
AGCCGAGCGAGCTCCGGAGGAATTTAGTATCTGCTACGGTAACTTCATCAGCCCGCCAAGATGCGGATGCAAGC
GGCCAAGAGGGCGAACATTTCGACTTCCACCTGAAGTAAATCGGATATTGTATATAAGAAATTTGCCATACAAAT
CACAGCTGAAGAAATGTATGATATATTTGGGAAATATGGACCTATTCGTCAAATCAGAGTGGGGAACACACCTGA
AACTAGAGGAACAGCTTATGTGGTCTATGAGGACATCTTTGATGCCAAGAATGCATGTGATCACCTATCGGGATT
CAATGTTTGTAACAGATACCTTGTTGGTTTTGTACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAA
GAAGGAGGAACAGTTGAAGCTTCTCAAGGAGAAATATGGCATCAACACAGATCCACCAAAATAAATGTTTTCTAC
ATTTTCATTTGGACTAAATCCCACGAATGACAACTACCACCTTTTTTCTTTTAAATTAATACTAAATATTGTG
ATTTCTTATTTGAGGTTCAAAATGACCTGCTTGAACTTTGATACATATTGGAATACATTATGTTAATAAACTTG
TAGCTTTTTGTGAAACAAAAAAAAAAGTCGACGCGGCCGCAATTTAGTAGTAGTAG

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FIGURE 1515

MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEMYDIFGKYGPIRQIRVGNTPETRGTAIVVYEDIFDAKNACD
HLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQLKLLKEYGINDDPPK

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FIGURE 1516A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCCTCCCCCTCCCTC
TCCAAGCCGAGGGGTCCTGAGGTGACAGCGCTGCAACTGAAATTCAGCAGCGGGAGAAGATGGACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCCTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAAGTGGGAAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGCTGTTACTTCCAGGTATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAAATACATAAGGACCCACCTGTAAGTGAAGGAAAGTTGAGTGATACAGACAAT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCTCACAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATTCTGCAAGCAGACTGCGCACAAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGAA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACTCA
CTCTGATTTCAGGAAGACAAAGAGAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAACAAGAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAACT
ATCATCAGATCCAAAAGTGCCTGAAGAAATTACAATAAAGTCAAAAAAGTGATTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCACTGATCTCAGCTGAACCAATTGTTGTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTTCTTAAGTTACAATCTAAGCAAGACCGTGAGACAATAATG
AAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTACCATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTGAGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAAGTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAATAAAAGGAGCTTCTAAAGGTTGTGTACAACTACAAAAAAT
ATATTAAGATCCCATTTCAAGTGTCCTGAATGAGATTTTCATTGCTAGTGGATACACACATTTAAAGCCGGTTTG
GGTTATGGAAGAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTACAGCCCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAATACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGAAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTCCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTTCTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGTCAGAGCAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTT
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACATAAGAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTTGAACGAAGTCACATTTTATAGTACTTTTCTATAAATGCTTGACAAGAAAGGAAATAATTTAACAG
AAGATAATCCAAATCTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCTGCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACTACTTTCGACACTGTCTTTGAGTGCAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCAATTGGAGAAGTGGT
TTCTCTGTCATGTAATAAAGACCAACGGGAAGATATTCGAGAGCTCATCTTGAAACTTCATTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCCTTACCA
GCATTTGTGTTAGCCAGCTCAGAGAGAAGAAAATAAAGTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTTAAATTTTATAAATATTTTCTAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTGTAGATAATAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTCTGTCAAATTTGCTGACAGGTCACATCATATTGTAATTTCTATT
CTTTCAGCTCAAGCATGCAGTATGAATACTGTGTATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1516B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTCATAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCTTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAGGGTAAAAATTGAAACAAAAAATTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCACCTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCTCATAACTTTAACAAAGAAAACCTCAGTCCTA
TTTATTAATGGGTAGAAATTAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTAATTTTTTATTA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACTTCTAAT
GTTATCAGGAGTATTTTGAAGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTTAAACAAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTATATTATTAAATATATTTGTTGTTTGGATATTCATATAAAGATGGCTAT
AATTACATATTTCAATCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTCTTAATGTTTTGTTTGTATGTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTAAAATTCATTTTCCTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1517

MDKRKLGRPPSSSEIIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPQWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILT NVLGTELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSESGSRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKT KRRRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFERPSSENYHQDPKLP EEEITTKPTKSDFT
KLSSLNSQELTSLNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENE LNTIEKPILRGHNEGQSLISAEP IV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLELPLITCESVQMSSELCPYNPVMENISSIMPSNEM
DLQLDFIFT SVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAKPTYTF LQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQ
SQSDNKTIDNDLRTTSLSLSAEDSQSTESNMSPKMKRRCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPVNFELPIHLEKWFP RHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1518

GCTCTGCACCCCTGCTGCTTCTGCTTTGAAGGCGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCC
TCAAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTGTTTTGGTTCAGAAAGATCAA
CATTCCCTTGAGCTAGATGAGAAAGCCTTGCCAGCATCCTCTTGAGGACCACATCCGAGATCTTGATGTGGTG
GTGGTTTCAGTGGCTGGTGCCCTCCGAAAGGGCAAGTCCTTCATTCTGGATTTATGCTACGATACTTATATTCT
CAGAAGGAAAGTGGCCATTCAAATTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCTGGAGAGGGGGA
TCTGATCCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTT
GCAGTTGTTCTGATGGATACCCAGGGGGCATTGACAGCCAGTCAACTGTGAAAGACTGTGCTGCCATCTTTGCT
CTAAGCACTATGACTAGTTCTGTTTCAATTTATAATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTG
CAGCTCTTCACAGAATACGGTCGTCTGGCAATGGATGAAATTTCCGAAAGCCTTTCAGACACTGATGTTTTTG
GTTAGAGATAGGAGTTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGAATGGCATTGTTGGATAAGCGTTTA
CAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTTCGAAATCACATTCACTCATGTTTCTCCGATGTCACC
TGCTTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAGCCCTGACTTTGATGGGAAATTTAAAGATATTGCT
GGTGAATTCAAAGAGCAGTTACAGGCACTGATACCGTATGTATTAAACCCATCTAAGTTAATGGAAGGAGATC
AATGGCTCAAAGGTCACCTGTGCGGGACTACTGGAGTATTTTAAGGCATATATTTAAATTTATCAAGGAGAAGAT
CTGCCCTCACCCCAAGTCCATGCTTCAGGCCACTGCTGAAGCCTACAACCTAGCAGCTGCAGCCTCTGCCAAGGAC
ATTTATTATAACAACATGGAAGAGGTTTGTGGGGGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAG
CACTGCGAATTCAAACAACCTGCTCTGGACCATTTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTTCAGCTTT
CGTTACCAGCAGGAGCTGGAGGAGGAAATCAAGGAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAAC
GTCTTCAGCACCTTCCGAACCCCTGCAGTGCTGTTACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACT
GGCTTCATAGGTCTTGAGGTTGTAGCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACC
TGGGGCTACATCAGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTG
GAGCAGGCTTCTTCTCATATCGGTAATCCACTCAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATG
GATAAAAAAGCTCAATAGCATCTTAACGTGAAGATCAAACAAGAACAACAAGCCCTACTGATTTCTGGGTTT
CTGCCACGGCCACAGGTTTATATCCAGAGGAATGGCAGATCTGAGACGATCCAGGAAGAGCTAAAACATGGCCCT
GTAATAAATGAGCAGACCTCTATAAAAGAAAAA

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FIGURE 1519

ALHPCCFCFEGGGSMLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLVV
VVSVAGAFRKGKSFILDFMLRYLYSQKESGHSNWLGDPEEPLTGFSWRGSDPETTGIQIWSEVFTVEKPGGKKV
AVVLMDTQGAFDSQSTVKDCAAIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFRKPFQITMFL
VRDRSFPEYSYGLQGGMAFLDKRLQVKEHQHEEIQNVNRNHIHSCFSDVTCFLLPHPGQLQVATSPDFDGKLDIA
GEFKEQLQALIPYVLNPSKLMEKEINGSKVTCTGLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAASAKD
IYYNNMEEVCGGEKPYLSPDILEEKHCEFKQLALDHFKKTKKMGGKDFSFRYQQELEEEIKELYENFCKHNGSKN
VFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSGQYRELGGAIIDFGAAYVL
EQASSHIGNSTQATVRDAVVGRPSMDKKAQ

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FIGURE 1520

GGCACGAGGGCCATGACGAGCCGGTCCGGAAGAAGAGGTAGGGCGCCGCCGTGACAGATTAGTCCTAAAGGGAAC
GGGGTTGTTAGTTCAATTGGCTACCGGAAAAAACAGGCTGGGCTGGGCGCCGCCATGACAACCGATACCGGAAA
AGGCGGGTCGTTCCCCCGGACAGCCCTACGCCGGCAAAGGTCTCGAGATGCAGGCGGCCCTAGAGGTCACCGCT
CGCTACTGTGGCCGGGAGCTGGAGCAGTATGGCCAGTGTGTGGCGGCCAAGCCGGAATCCTGGCAGCGGGACTGT
CACTACCTTAAAGATGAGCATTGCCCAGTGCACATCCTCCCACCCAATCATCCGCCAGATCCGCCAGGCCTGTGCT
CAGCCTTTTGAGGCCTTCGAGGAGTGTCTTCGACAGAACGAGGCAGCTGTGGGCAACTGTGCAGAGCATATGCGC
CGCTTCCTGCAGTGCCTGAGCAGGTGCAGCCGCCACGCTCACCTGCAACTGTGGAGGCACAGCCACTTCCTGCC
TCCTGAGGACTCCTCTGACGGCAGGAAAACTGGACATGAATGACTGCCCCCGCCCTCCCTGCAGAGTGGCC
AGATGGAGTCCTGAGCCCTGGACATGGGCCCGGCTTTCCTGGATATCAGGACTTCCAATAAATAAAGACTCTGTA
TACTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1521

MQAALEVTARYCGRELEQYGQCVAAPESWORDCHYLKMSIAQCTSSHPIIRQIRQACAQPFEAFEECLRQNEAA
VGNCAEHMRRFLQCAEQVQPPRSPATVEAQPLPAS

1673/2682
FIGURE 1522

ATTGCTGGCCTAGGTGAACTGACGGTCTCCATTAGAAACATGGCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTTCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTGCTAAGAGTACACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTC
AAGGAAAGGACTAGAAGAATTTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTGGAGCAGCATG
GACCTGTCAGCACTAAGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAA
CATGCTTCTAACCTTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAGATACAATAGGAAACGATTCTTGCCTTGCCTTATGTGGACCAITTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAATTTAGAGAGAAAGAAAGCAAAAATTTCTTT
AAAAAGTTTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGCTTAAGATGTCTGAACTATTAAATTTACCAT
TTTGTTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAGAAATCTGTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACTTTATAAATCTGACATTTAAGCAGGCTTTAAATGT
CACCTGCTACCTTAGAGTGTGAAGGTGATGGTAAGTCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTAAATCTGTAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAAATGCTTGTAATAAGAATAAGTGCATTTCAAGGAAAGCACAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAAATTGAAATATGCAAAAATGTATAACATTCTAC
AAAAGATGGTCATTCTTTCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTTCTCAAGGGCATTCTTTCTTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTG
CTGGAGATCCTTACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCAATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTCACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAACTGCAGTTTTGCAAAGGAAGAAGGCAGGGATGTGTAGTGTCAAACATTAACTCTGTCAAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGGAAGTATCCCAGTCTTCAACCATCCCATTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTTGCTT
TATCGCCATCTATTTCCATTAATGTGCTTCCGTCTCTCTTTCTACCACCATAACCAATAGCTGTAGGAAAAATCCA
CCTTGGGGCAGTCTCACCAGCATAACCAGCTCTCAGATATAGGATCCAATGTCAAAAACAAGGGCTCCAACCT
CATCTCCCCGTACCACGCCGCCGCTCATGGCTGTGCCGGCGGACTCCTACCCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCTGACTCCCTTAACCTTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

REPLACEMENT SHEET

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FIGURE 1523

MAATSLVGICRRASAFILKAACSLVNPKDAAHSGCRSSLSLLPKSTPNVTSFHQYRLLHTTISRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAKRQLPMPSPERLDKVVDSDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKRFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

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FIGURE 1524

CTTGGGGTGGGGACCGGGTGAGGGGCTGACGGCAGAGTCGGTCCAGAACTGCCCCGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGAAGTCTAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGAAAGAAGGAGAAAGGAAAGAAAAA
CCTAGTTTCACTCCTCCCTTCTTCCATGCTCTCCTCAGGGTCTGCGATTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCCTCCTGCAGCAACTCCCTCCGAGGACATTGATGAGC
GCTACTGCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCCGCTGCTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGATACGGAGTGTGTCAGCCCGGGCAGGGGAACAGCGTGTGTCACCAGCCTTGCTTTGCTGCTGCTG
AGGCTGTGGCCAGGCCCCGTGATAAACCTCATCTACTTCTACCATGATGGAACAACCTCTACTGCGGCCGTCATCATG
CAGAGTTGCTGCGCCCCGCGCTGCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCCTTCTGTTGCCAGGACTGCGCCGGGCTCTGGGCGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCGTGCTGCCCCAGCTGCTTCGAGAACCCTAGCTCGGATGCAGGCTCGAGCTGGGCGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCACCGCACCCCCAGCCCAAGCCTCGGGGCGCGAGCTCTACCCGCG
CATCCCTGGCGGAGCGTTCCAAGGGCCGCCCCGACCCACCCCGCGCGGTCGGGGTTCGGGCGCCGAGACTCC
CTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGGAGGCGGGGACCCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGGCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTACCCCCACTAGCTGCGGTGTAGTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGCGCCGGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC
CAAACCTCGGTGAACCTCTGCAACCCCTCTCCCGAACACTCCTTGCTGCTGCCGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCTGGATCCAGTCCCCAGCAGGAGAACCAGCCTGGGGACAAAGCGGAGGACCCAAAGGGCAGGAG
CAATGCCGCTGGAGACTATTCTGATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTCTTAGGCGAGCGCCTTCCCCAGTCTTGAAGACCCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGAGAAACAAGGCTAGCCTCCCCCTAACAACTCTAGACTGAGACGCACTCAGGCGCACGCCCCGAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGGCCCCCTTCACTAGTGCAGCTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCTGCTGAGATAGCCCCCTACCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGAGCAGGGGACCGTAGAACCGGGCGCGCTCCTCCCCCTCTAGAGTTCTGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTGCGACTAAGCGAACAGCGCCCCCACTGCCGCGCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCGGATACGGTTCTCCAGCGAGGCCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAACTCCCGAAATACCGGACAACTGGG
AGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGAGGAACTTGATACTAAATTTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTGCTTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTTCAGATGG
GCACTTTTCTTCCCTTCCCTGCCTAGTTTCTTTTGTTCCTTGAGTCCACGCAGAAATTCATTCTCTGGTTCAGC
AGACAGGCTTAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTTGCTCTGTCTGAGAAATAACAGTGTGTTTTAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1525

MSPQGPAVLSLGSCLDTNQAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACQALINLIYFYHDGQLYCGRHHAE LLRPRCP
ACDQLIFSWRCTEAEGRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAFLGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLPRRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPPLAAV

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FIGURE 1526

GGGCCGAGCCATGCAGGCGTCGCGCGTGGACTACATCGCTCCCTGGTGGGTCGTGTGGCTGCACAGCGTCCCGCA
CGTCGGCCTGCGCCTGCAGCCCGTGAACAGCACCTTCAGCCCCGGCGACGAGAGTTACCAGGAGTCGCTGCTGTT
CCTGGGGCTGGTGGCCGCGCTGCTGGGCTGAACCTCATCTTCCTTGTGGCTTACCTGGTCTGTGCATGCCA
CTGCCGGCGGGACGATGCGGTGCAGACCAAGCAGCACCCTCCTGCTGCATCACCTGGACGGCCGTGGTGGCCGG
GCTCATCTGCTGTGCTGCGGTGGGCGTTGGTTTTCTATGAAACAGCGAGACCAACGATGGGGCGTACCAGCTGAT
GTACTCCTTGGACGATGCCAACCACACCTTCTCTGGGATCGATGCTCTGGTTTCCGGAACACCCAGAAGATGAA
GGTGGACCTAGAGCAGCACCTGGCCCGGCTCAGTGAGATCTTTGCTGCCCGGGGCGATTACCTGCAGACCCTGAA
GTTATACAGCAGATGGCGGGCAGCATTGTTGTTTCACTCTCAGGACTGCCCGTGTGGAGGGAGGTACCATGGA
GCTGACCAAGCTATCCGACCAGACTGGCTACGTGGAGTACTACAGGTGGCTCTCCTACCTCCTGCTCTTTATCCT
GGACCTGGTCATCTGCCTCATTGCCTGCCTGGGACTGGCCAAGCGCTCCAAGTGTCTCCTGGCCTCGATGCTGTG
CTGTGGGGCACTGAGCCTGCTCCTCAGTTGGGCATCCCTGGCCGCTGATGGCTCTGCGGCAGTGGCCACCAGTGA
CTTCTGTGTGGCTCCTGACACCTTCATCCTGAACGTCACGGAGGGCCAGATCAGCACAGAGGTGACTCGCTACTA
CCTGTATTGCAGCCAGAGTGAAGCAGCCCCCTTCCAGCAGACCCTGACCACCTTCCAGCGCGCACTTACCACCAT
GCAGATCCAGGTCGCGGGGCTGCTGCAGTTTGCCGTGCCCTCTTCTCCACTGCAGAGGAAGACCTGCTTGCAAT
CCAGCTCCTGCTGAACTCCTCAGAGTCCAGCCTTACCAGCTGACCGCCATGGTGGACTGCCGAGGGCTGCACAA
GGATTATCTGGACGCTCTTGTGTCATCTGCTACGACGGCCTCCAGGGCTGCTGTACCTTGGCCTCTTCTCCTT
CCTGGCCGCCCTCGCCTTCTCCACCATGATCTGTGCAGGGCCAAGGGCTGGAAGCACTTACCACCAGAAACAG
AGACTACGATGACATTGATGATGATGACCCCTTTAACCCCAAGCCTGGCGCATGGCGGCTCACAGTCCCCGAG
GGGACAGCTTCACAGCTTCTGCAGCTACAGCAGTGGCCTGGGAAGTCAGACCAGCCTGCAGCCCCGGCCAGAC
CATCTCCAACGCCCTGTCTCCGAGTACATGAACCAAGCCATGCTCTTTGGTAGGAACCCAGCTACGAGAACGT
GCCACTAATCGGGAGAGCCTCCCTCCGCCTACGTACTCTCCAGCATGAGAGCCACCTACCTGTCTGTGGCGGA
TGACACCTGAGGCACTACGGGAATCAGTTTCCAGCTTAACAGACTTTTCGGGGGTTCCCTGCTCCTTTTCCGTT
CTGGTTTTTAATTAGTGCAAATACAAGCTGCGTTTTCTTAATAGAAACCAAGGCATCTGGAGCCCGAGAGCCT
CCTGCTGGGCAGAGGAGCAGCTGGGATTCCCGACCAAGCCCCAGGGGTGCGAGAAGACTACCACGCGGGCCAG
CCTCTCTCTTTTGGCCTGCTCTCCACACCAGAAATGCCCCAGGTGCTTGGCTGCCTCAGAGGTACCATCCCTGA
GCTGGCTGCCTGGCCCTGCTCACCCCTACGCCTCGCCCTTGCCAGGAGGGGAGTGGCAGTGAGGAGGGGGCCAGG
TCAGGCACCACCATCAAGAGAGCTGTGTGTTCTCTCTGGTCCCAACGATGACTCTGCCTCTTGTGAGCCACG
CAAGAGCCCAGACGACCCCTCTGTCTCGTTCCCTGTCTCGTTCCCTGCAGGTAACATGAGAAGGGCTGATCAG
GAGATGCTCTTTAAGAAGTTTCGACCCCTGCTGACACCAGAACAAGCCAAATCAGAGTTCCAGGGCCAGACAGGC
TCTTCTGGGCCACAGAGGGGAGGCATCAGGAAAGCTCTGCAGTGGGGGCTGGTGGCTCCGGGGCTGGGGGATC
ACAGGCTGGTGAACCCCGGTGGGAACAGAGGTGAAAGCCTGCCACATTCCGCTGTCTCCCTAACCTCCATTGC
CTCGCCTCTATTCCAGAATCAATGCTGCAGAATGTGTTAGCTGCAGATAGGCATGGTCTCAGGTATGAACAGACA
CTTTGAAACGACTTTTAGGTCTTTCTTTTCTCCAGTGTTTTAAACATGTTGATTATCCAAAGAATTGAACTCCTA
GCACATCCAGTTTTTTACAACAGATTTGCAGCTCATTCTTACCCTGGTTAGGTCACTACTTTTGCAGATTTTGT
GGCACTGATCTGGAGATCTGCAGATCTGGAGGAGACGGGAAGGAGTCGATTCTTAAATAAGGATCAGTGAGGCAT
CCTGTCCCAAGCTACTGTTTGGTGGGGATCTGGGTTTCTCACCACAGAGGGAGGATCTTTAAGAGGAGAAAA
AAGCCAAGAGGGAAAGCCAGAGTTCCCTGTTCTAGGGGACTAGCCAAATGCCTACATCAGCTGTCCCTCCCTGT
TGTCTCCAAGTAAGTTTGCCAGAAAAGGTTTTAGCAAAGTGCTACAACGTGTCTTTATAGGAGGATAGGCCTCT
GCCCTGCCCCACCCCCACCACCTGTCCCCACCCAGTGTCCAGGCCACAGGAGCTTATTGGCCAGGAGGGAATAA
TGTCCCCAATACTGCCTGTTGAGGGACCAGAGTTGGGGTCTTTGGTGCTTCCAACCTCTGCCAACCTGGAGTT
CACAAACACCAGAGCCCCACGGCCTCGCACACTGAAGCAGGGGCGTGCGGTGACTCGGTGCTTCTGTTTTGGAAGA
ACCACCTGTCTATCAAAACATGGACAGCAGGGTGTCTCAGCTCCAGCGAAGCCTCCACAACAGAATGGGGCCAC
AGGGCAGCCGGGACTCCCTGTCTCACCTACATTAACCCATGCATACTGTATGCCATAAACTCACTTTGGTATATC
CGCGTACATGCAGAGAGGAACCTGCGCAGCTCAAAGTGTGCTTCTTAAAGTTTCATTATTGGCAACTAGAGGG
TTGTTTTTAATGCATGGAACTAAACAGATTCTCGGGGAGTTCTGAAGGAACAGGTGGGCAACCTTTGCTT
ATATACATGCGGCCTCACCTGGAAGAGAAATAAACCACTTGTACT

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FIGURE 1527

MQASRVDYIAPWWVVWLHSVPHVGLRLQPVNSTFSPGDESYQESLLFLGLVAAVCLGLNLIFLVAYLVCACHCRR
DDAVQTKQHHSCCITWTAVVAGLICCAAVGVGFYGNSETNDGAYQLMYSLDDANHTFSGIDALVSGTTQMKVVDL
EQHLARLSEIFAARGDYLQTLKFIQQMAGSIVVQLSGLPVWREVTMELTKLSDQTGYVEYYRWLSYLLLFILDLV
ICLIACLGLAKRSKCLLASMLCCGALSLLLSWASLAADGSAAVATSDFCVAPDTFILNVTEGQISTEVTRYLYC
SQSGSSPFQQTLTTFQRALTTMQIQVAGLLQFAVPLFSTAEEDLLAIQLLLNSSESSLHQLTAMVDCRGLHKDYL
DALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTRNRDYDDIDDDPFNPQAWRMAAHSPPRGQL
HSFCSYSSGLGSQTSLQPPAQTISNAPVSEYMNQAMLFGRNPRYENVPLIGRASPPPTYSPSMRATYLSVADEHL
RHYGNQFPA

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FIGURE 1528

ATGGATGAAGAACCTGAAAGAACTAAGCGATGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAGAAGAT
GAATCTGGATCACTTAAAGCTACAATAGAAGACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCAT
GGACAAGTTGACTTGAATGATGCGCCACCTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGAT
TTAAAGCCTAATAGACTGACGTGTACTTTAAAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCT
ATTAGTCAGATTGGAATAATTGTAACTAAGAGTAAAGAGCTGAAAAATTGACTGAACTTTCAGGAAACCCAAGA
AAACATATAACGTCCTTTGAAGAAAGCTGTGGATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCTAAGC
ATAGCTATGCAGACTCTAAAACACATGCCTGGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACA
ACTTGCGATCCATCTAATATTTATGATCTAATCAAGACCCTAAAGGCAGCTAAAATTAGAGTATCTGTTATTGGA
TTGTCTGCAGAAGTTGCGGTTTGCACTGTACTTGCTCGTGAACTGGTGGCACGTACCATGTTATTTTAGATGAA
AGCCATTACAAAGAGTTGCTCACACATCATGTTAGTCCTCCTCTGCTAGCTCAAGTTCTGAATGCTCACTTATT
CGTATGGGATTTTCCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGAGGCTATTTCTGCCACAGTGTGCGGCAAAGTACTGTGAG
CTACCTGTTGAATGTAAAATCTGTGGTCTTACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTG
TTTCCTTTGGATGCTTTTCAAGAAATCCCCTAGAAGAATATAATGGAGAAAGATTTTGTATGGATGTCAGGGG
GAATTGAAAGACCAACATGTTTATGTTTGTGCTGTGTGCCAAAATGTTTCTGTGTGGACTGTGATGTTTTTGT
CATGATTCTCTACACTGTTGCCCTGGCTGTATTCTAAGATTCCAGCTCCTTCAGGTGTTTGA

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FIGURE 1529

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVEHHGQVRLGMMRHLYVVVDGSRTMEDQD
LKPNRLTCTLKLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVDMTCHGEPSLYNSLS
IAMQTLKHMPGHTSREVLIIFSSLTTCDPSPNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDE
SHYKELLTHHVSPPPASSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCE
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVVYCAVCQNVFCVDCDVFV
HDSLHCCPGCIHKIPAPSGV

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FIGURE 1530

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FIGURE 1531

MQGTWLPPSFLAVCDTEEVSLFLELCFKIHVTCKAVLICDYGPMELGQSLWEAEGKDPGHFR

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FIGURE 1532

CCCTTTAAAGGGTGACTCGTCCCACCTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCCATGAAGTTTCGTCCCCTGCTGCTGGTGACCTTGTCTGCCTGGGGACTTTGGGTGAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCTTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGCTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCAAGGCCACAGTGAACTCACAGAAGCAACACAGCTGGGAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACCAACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAAACCTTCCAGGCCCTGTGCCCTTTCTCATCAGCTTCTTCCGAGGGTGA

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTCTAATCAGATGCAACGGCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGAAAAGAAACCTTCCTTCTGGAGTTTGCAGAGTTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATAACAACCTACTTATTATCTGTAGAAGTTTGTCTTGTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTTCATGAATTTCCAGTGTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAAGAA
TGATTTTCAGAAAT

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FIGURE 1533

MKFVPCLLLVTLSCLGTLGQAPRQKQGSGTEEFHFQTGGRDSCTMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFADPKPYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKAWHCWKPFQALCAFLISFFRG

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FIGURE 1534

ATGGCCACAGCACGGGGCGATGGGCGCGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCCTGGGT
CAGCGCCCCACCGGGGGTCCCGGGTGC GGCCCTGGGCGCCTCCTGCTTGGGACGGGAACGGACGCGCGCTGCTGC
CGGGTTCACACGACGCGCTGCTGCCGCGATTACCGGGCGAGGAGTGCTGTTCCGAGTGGGACTGCATGTGTGTC
CAGCCTGAATTCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCCTTGTCCTCCAGGCCAGGGGGTA
CAGTCCCAGGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTCGGGGACCTTCTCCGGGGGCCACGAA
GGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCGGGTTTCTCACTGTGTTCCCTGGGAACAAGACCCACAAC
GCTGTGTGCGTCCCAGGGTCCCCGCCGGCAGAGCCGCTTGGGTGGCTGACCGTCGTCCTCCTGGCCGTGGCCGCC
TGCGTCCCTCCTGACCTCGGCCCAGCTTGGACTGCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGA
GAGACCCAGCTGCTGCTGGAGGTGCCGCCGTGACCGAAGACGCCAGAAGCTGCCAGTTCCCCGAGGAAGAGCGG
GGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGGTTGA

1686/2682

FIGURE 1535

MAQHGAAMAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCV
QPEFHCGDPCCTTCRHHPCPPGQGVQSQKFSFGFQCIDCASGTFSGGHEGHCKPWT DCTQFGFLTVPGNKTHN
AVCVPGSPPAEPLGWLTVVLLAVAACVLLLTSAQLGLHIWQLRSQCMWPRETQLLLEVPPSTEDARSCQFPEER
GERSAEEKGRLGDLWV

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FIGURE 1536

GGCACGAGGGACCTGAAGCTGGGGAAACATGGTGTCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGC
CTCGGGAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGAC
GTGCTCAGCGGCCGCGGTACCGTGGCAAGCCCAAGTACATGTGGGCCCTGGGCGTGGTGTCTTACCATTGCTG
TATGGCCAGTTCCCTTCTACGACAGCATCCCGCAGGAGCTCTCCGCAAGATCAAGGCTGCCGAGTATACCATT
CCTGAGGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCCCTGACCCCCAGCAGCGC
CTGGCCGCCGCCGACGTCTGGAGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCATCTCTGAGTGGG
CCTTTGCAAGTGGTTCTGACATTGATGACCAATGAGCAATGCGGATAGCTCCCAGCAGGCGAAGGTGACGGAG
GAGTGTCTCCAGTACGAGTTTGAAGTACATGCGTCAGCAGCTGCTGCTGGCCGAGGAGAAGAGTCCATCCAT
GACGCCCCGAGCTGGGTACCAAGCGGCAGTTCGGCAGCGCACACCAGGTGCGACGGCTGGGCCACGACGCACAG
CCCATGACCTCCTTGGACACGGCCATCCTGGCGCAGCGCTACCTGCGGAAATACAGCCCTAGCCGGGGGCCACCA
GCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGCGTGGCTGTGAGGGCTGGGCCCTGTAGTGTGGACTCTCC
CGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGCCAGGTACACGTGGGGTACAGCAGAGGTACCACGAAGC
TACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAATCTGAGAAGCCTAGATAACTAATCTGCTTTTAAATCA
CGATGTTTTAATCTACCTCTGTCTCTTAAACATGCTGTCTCTGGACTGAGCAAGAGGGAGGAGGGAGCCTGCTC
ACCCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACCTGGGGCGTGCTCCCCACAGTCCAAATAAGCTGAA
AGTGCAGCTCGCTGCGAGGCCCCAGAGCGAGCTTCCCCCTCCTCCCTGCTCTCCAGGCCCTGCCACAGCCTCTTT
CCGTCCCTCTCTTTCTGATCCAGGCCCTCAGTCCAAGCTTTGGAAAACCTTCACCTCATCTTAAACCGAATCA
AATATATTTATTTTTTACCATAACCACTTCTCTCCCATCTCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCC
CAGCCTGGCTGGACAGCAAGGAATCCACAGCCACACGTGAGCTCCCTCCTCAGCCCCAGGCAGGGAAGCCCTC
CTGCCAGTCCCTGTCCCTTTCAGCCCAACAGTCCCTCTCTGCTGCCGGTATGGGAGGCCCTTCTAGACCTGGC
TCTTTCTCTCCCGTCTCAGTGGCTTCTCTGAGGTGCTGTACACGCGCTTAACCTGTTCCCTCTCTATCCTTCC
CCGTGGTACTGAGCTCAGTGGACTCCAGTGCAGAGGGGCCATGGGTGGGCTGCAGGCCTGGCCGTGAGCGG
GGGCTGCCTGCACGCTCCCTAGCCTACTCTTGTGTTTAGGGGATGGTGGGAACATATCCAGTGCCTTGCCTC
ATAATAGATGTGGTGACTCTCCCGTAGACCCTAGCAAGGGTCTCCATGGTGGTGAGGGACTCAGGAGAATTGT
AGGGATTGGGGGACCCTGCCTGCCTGGCTTGAGAACAGCCCTGCTGCCCTTTGAGCCGAGATTTGAAGTGGAT
GCCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAATGCCCCCTCCCTTGCCTTACTGGACTTGGCCCTGCCTGA
TGCCAAGCAAAGACCCTTCCCCAGAGGCCTACCCCCATATGTCTCAGAGAGGCTGAGTGTCCCTCCAGGCAG
TCATGGGCCCTGAGGCCCTCCTGCCTGGCCCTGCTCCCCAGTGGGGAGGTGACTGTGTTTCCAGAGTGTGAGC
CGCTCTCCTCCCCCTAAAAAGCTGACTCACTGTGAGTGACCTTGGGCAAGTCCCAAACCTCCTTGTGCCTCAGT
TTCCCCATCTGGAAAAAATGGGGCCACCTCTTGCCAGCAGTAGCAGGGCTGCCACGCCCCCTTCTCCCCATGCC
CCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGGGCCTGTGGGAGCCTACTGGAGCCAGCACTTACTC
CCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGCGCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGG
GATGCCCTCTTTTCTATATTTATTTTATAGAAAGTCTCCTGCGGGAGCGGAAATGCAGTCCGGCCTAGGGCTCCC
AGCCCTTGACTGTCTCTCTGTGAGGGCCTGAAGCTGGGGCAGGGCCCGTGCAGCGGAGCCCCCTCTCAGCAGCC
CACCGGGTCCCTCCAGGCTGCTGCCCCTGCGTGGTCTTTCTCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCA
AAGCCCTGTGAGACAGACTGGGCCCTTCCAAGGTCAAGCCATGTGTCTGATGACATTCTGGTGAAGCAAAGGAG
AGGAGGATGGGTGAGCCCTCACTGGGTGTACACACTGAGAGAAGTCTATTGTAAAGAAACGGAAAAAGTCACA
AAAAAGTTTGTATAAAGACATATTTTTGTACTACATGGGGACTCTTCTGCTGTGTCAGCAATAAACTTCTGTAT
CTGGAAAAA

1688/2682
FIGURE 1537

MVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFMTLYGQFFFYDS
IPQELFRKIKAAEYTIPEdGRVSENTVCLIRKLLVLDPOQRLAAADVLEALSATIASWQSLSSLSGPLQVVPDID
DQMSNADSSQQAkvTEECsQYEFENYMRQQLLLAEEKSSIHDARSWVPKROFGSAPPVRRLGHDAQPMtSLDTAI
LAQRYLRK

1689/2682
FIGURE 1538

TCCTTTGGTGCCTTGTGACCAGGGCCCTGATGGTTTCATTAGATGGAGCCTTCGAGTCTTAGGGAGTTGCCGCAGG
GTCCCCACAGCGGCTCCCGACGGTTGTGAACCAGCATCCATCCTCCACGGATTCCGGCAACCCGCTGGCCCTGG
ACGTGTCTCAACTGGCCCGCGTGAGGGGCGCCCCGGAATGACGCGCTGCCCCGCTGGCCAAGCGGAAGTGGAG
ATGGCGGAGCTGTACGTGAAGCCGGGCAACAAGGAACGCGGCTGGAACGACCCGCCGAGTTCTCATACGGGCTG
CAGACCCAGGCCGGCGGACCCAGGCGCTCGCTGCTTACCAAGAGGGTAGCCGCACCCAGGATGGATCCCCCAGA
GTCCCCGCATCAGAGACTTCTCTGGGCCTCCCCAATGGGGCCTCCACCTCCTTCAAGTAAGGCTCCCAGGTCC
CCACCTGTGGGGAGTGGTCCTGCCTCTGGCGTGGAGCCCAAGTTTCCAGTCGAGTCTGAGGCTCGACTGATG
GAGGATGTGCTGAGACCTTTGGAACAGGCATTGGAAGACTGCCGTGGCCACACAAGGAAGCAGGTATGTGATGAC
ATCAGCCGACGCCTGGCACTGCTGCAGGAACAGTGGGCTGGAGGAAAGTTGTCAATACCTGTAAAGAAGAGAATG
GCTCTACTGGTGCAAGAGCTTTCAAGCCACCGGTGGGACGCAGCAGATGACATCCACCGCTCCCTCATGGTTGAC
CATGTGACTGAGGTCAGTCAGTGGATGGTAGGAGTTAAAAGATTAATTGCAGAAAAGAGGAGTCTGTTTTCAGAG
GAGGCAGCCAATGAAGAGAAATCTGCAGCCACAGCTGAGAAGAACCATAACCAGGCTTCCAGCAGGCTTCA
TAATCCCTCGGTTCCCCAGACT

1690/2682
FIGURE 1539

MTRCPAGQAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQAGGPRRSLLTKRVAAPQDGSPRVPASETSPGPPPM
GPPPPSSKAPRSPPVGS GPASGVEPTSFPVESEARLMEDVLRPLEQALED CRGHTRKQVCD DISRLALLQEQWA
GGKLSIPVKKRMALLVQELSSHRWDAADDIHRSLMVDHVTEVSQWMVGVKRLIAEKRSLFSEEAANEEKSAATAE
KNHTIPGFQQAS

TACTTGTTGAATCAA

1692/2682
FIGURE 1541

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDNSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQQFV

1693/2682
FIGURE 1542

GGTCGGGACCGGCAAGATGGCGGCGGGACAGCGTTCCGGTGCTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAA
TTTTTCTGTAAACACTTCTAAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACCAATATGAAGTGGGT
ACAGTTTTCAAACCTACACGTTGATGTTCCAAAGGATTGACCAAACCTGTGGTAACAATCTCTGATGAACCAGA
CATATTATATAAGCGCCTCTCGGTTTTGGTGAAAGGTCACGATAAGGCTGTATTGGACAGTTATGAATATTTTGC
TGTGCTTGCTGCTAAAGAACTTGGTATCTCTATTAAAGTACATGAACCTCCAAGGAAAAATAGAGCGATTACTCT
TCTCCAATCAGTGCATATTTACAAGAAGCACAGAGTTCAGTATGAAATGAGAACACTTTACAGATGTTTAGAGTT
AGAACATCTAACTGGAAGCACAGCAGATGTCTACTTGGAAATATATTACGCGAACTTACCTGAAGGGGTTGCCAT
GGAAGTAACAAAGACACAATTAGAACAGTTACCAGAACACATCAAGGAGCCAATCTGGGAAACACTATCAGAAGA
AAAAGAAGAAAGCAAGTCATAAGCCTCAGGGAGGCCATTTTTGCCATAAATTTGAAATGAGGGTGGGCCAGATGA
GTATGTTTAAAGTGGAGAGTGCTTCCAGCTGAGATGATTGAGTCTGTCCTAACTGCTCCATTGAGTTCTCGTGCC
CTCATCAGCTGAGGGCAGGGAATGGAACCTTTAATGGAAGAACCCTTTTATCTATTCTTTTATTTCATTGTTTCA
GTTCTGATTTTACGAAACATGAGCAAACCCTTTGACTGAAAGCAGAAAGAGTGAATTTCTATTTTGTACGCT
ACTGGTGTTCAATTATTAGTTTGTACCATTTTTAATTTATGTGAGTTGATGCATCTGAAAAAAGTGCTTGGAGT
GTTGCTACCTTTATTTTTTTTTAAGATTCTTAGAAGGAATCTTTGGTTAATTCAGATTGAGCAGTTAAAGTTTTT
GCTATTTACCTTTTGTGAGGCTGGCATATGCTAATTTGGGGGTGGTAACCAACCGATTTTATCTCATGTAAGCAT
TACATTTTGAAGACTGAATATACTTCACAGCAGATCAAACACATTTATGGCATGCACTGACCTCTTCTTGGAGCC
CAGAACCTTTATAGAGTTGCCTACCAGGGTTACTGTAATGGAATTTATGATCTTAAGAAATTACTAGTTGTATTAT
TTATCCTATGATTCATTCAATTCAATAAGCTTTTACTGCATAAACTTTACATCCAGCACTGTAGTTAAGTACCCAA
AATTGAATAGAAATAATGGCTTTTAAAAATTGCACAAAGCAGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCCAGACCATCTGGCTAACACGGTGAAACCCC
GTCTCTAATAAAAAATACAAAATTAGCTGGACATGGTGGCACGTGCCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCGTGAACCCGGGCGCGGTGGAGGCTGCAGTGAGACGAGATCGCGCCACTGCCTCCAGCCTGG
CGACAGAGCGAGACACCGTCTCAAAAAAAAAAAAAAGAAATTTGTGCAAAGCATAGGTAAATATTTTCTTTAT
TAAGCTTCTCACTGAGAAGCCCTCTTTATTTTGGTAAATGTCACCTCTGTTTGTAGGAGATGTCTGCTTTTCCAT
GAAATGAAATAGTGGCTAAAGCCCTGAAAGAGGCAAGACTACAATGGGCTGAAACAGTTGGTATAGCAACCCAG
AGAAGTGCTTCATTTTCTTTTATAGTAGAAGCAGGTCCATGTCTTTTGTGGTTTCTGACATCTTTGGAGTAG
TTATGACTTCTCAGTTTTTCCCCCTTAACTGCATIGCCTATTCTTTTTTCTGACATGCTATCAGGTATCAGT
GTGTTGAATACATAATGCTTGTGTATCAGACTTACGTTACTGTCTATCACCATTAAAAGAATTGCAGCCTTGTGCC
CCATGACCTTCA

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FIGURE 1543

MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGGLLLSTNMKWVQFSNLHVDVPKDLTKPVVTISDEPDILYKR
LSVLVKGHDKAVLDSYEYFAVLA AKELGISIKVHEPPRKIERFTLLQSVHIYKKHRVQYEMRTLYRCLELEHLTG
STADVLEYIQRNLP EGVAMEVTKTQLEQLPEHIKEPIWETLSEEKEESKS

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FIGURE 1544

ATGGCGTCGGTGGTGTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCT
CTTGCTGTCAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATCAGGCAGACGC
CAAGGCATTAAGAAAATGGAAGGTCACTATGTTCACTGCTGGGAACATCATTGCAACACAGCGCCATTCCGCTGG
CAGGAGGTGCCCCATGTGGGTGTTGGGAAGAATAAATGTCTGTATGCCCTGGAAGAGGGGATAGTCCGCTACACT
AAGGAGGTCTACGTGCCTCATCCAGAAACACGGAGGCTGTGGATCTGATCACCAGGCTGCCCAAGGGTGCTGTG
CTCTACAAGACTTTTGTCCACGTGGTTCCTGCCAAGCCTGAGGGCACCTTCAAACCTGGTAGCTATGCTTTGA

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FIGURE 1545

MASVVLALRTRTAVTSLLSPTPATALAVRYASKKSGGSSKNLGGKSSGRRQGIKKMEGHYVHAGNIIATQRHFRW
HPGAHVGVGKNKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLYKTFVHVVPAPKECTFKLVAML

1697/2682
FIGURE 1546

GCAGACGCAGGGGTCGGCGCCGGGTGAGAGCGTGCGGCCGGATTACCACAACATGGCAAAATCTTTTATAAGGA
AAATGGTGAACCCCTCTGCTCTATCTCAGTCGTCACACGGTGAAGCCTCGAGCCCTCTCCACATTTCTATTGGAT
CCATTGAGGTGCAGCCCCGTTGGCTGTGGAACCCGGGGCAGCAGTGCCTCACTTCTCTCACC CGCCTCCTGC
CCCATCTGCTGCCTGCGCTGGGGTTCAAAAACAAGACTGTCCTTAAGAAGCGCTGCAAGGACTGTTACCTGGTGA
AGAGCGGGGTCGGTGGTACGTCTACTGTAAAACCCATCCGAGGCACAAGCAGAGACAGATGTAGACCCTTTCCC
TCCAGAGTCACGCACATACTCGTCATCGCATCACTTGGGAGAATGGTTGTATCTTATGGAAGGAATTATCACATC
AAGGAGTCAGGGGAAAGTGACTGGAAGCAAACGCCCTAAAAGTTACCCATCACGTTTCAGTGTAATGAGTAACT
ATAGAAGACATTGCGTTATCTTATTTCCAAAACGTTCCAATAAAAAACATTTTCCTATTAAATAGACCTTCG
ATAAAAAAAAAA

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FIGURE 1547

MANLFIRKMNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGA AVRSLSPGLLPALLPALGFKNKTVLKKR
CKDCYLVKRRGRWYVYCKTHPRHKQRQM

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FIGURE 1548

TAGTTTGCGTTTTTACCTGGTCGCCCCGGCGGCCATGGCGGCCGTTCTGAAGCCGGTGCTGCTGGGCCCTTCGAGAT
GCGCCGGTGACAGGCAGCCCCACAGGGCCGGGTGCCTGGACTGCTAGCAAGCTGGGCGGCATTCCGGATGCTCTG
CCCACCGTGGCTGCGCCCAGGCCCGTGTGTCAGCGCTGCGGGCAGCCGCTCGCTCTGGTCGTGCAGGTGTATTGC
CCGCTGGAAGGCTCCCCGTTTACCGTCTGCTGCACGTGTTTCGCGTGCGCCTGCCCCGGCTGTAGCACCGGCGGT
GCGCGCAGCTGGAAGGTGTTCCGCTCCCAGTGCCCTGCAGGTGCCAGAGAGAGAGGCGCAGGACGCTCAGAAACAG
GGAAACAGCCTTGCAGCTGAGGACTGGTGTGAAGGTGCTGATGACTGGGGAAGTGATACTGAGGAGGGGCCTTCA
CCACAGTTTACCTTGGATTTTGGGAATGATGCCAGCAGTGCCAAAGACGTAGACTGGACTGCTCGGCTCCAAGAC
CTCCGCCTGCAGGATGCTGTCTGGGTGCTGCCCATCCTGTGCCTCCTGGGCTGCCGCTCTTCTGCCCTACTAC
ATCTGTGTTGCAGATGAGGATGATTACAGGGACTTTGTCAACCTGGATCATGCCACAGCCTTCTGAGGGACTAT
CAGCAGAGAGAAGGCATTGCCATGGATCAGTTGCTTTCCCAAAGCCTTCCTAATGATGGTGATGAAAAATATGAG
AAGACCATAATTAAAAGTGGAGATCAGACGTTTTACAAATTCATGAAGCGAATTGCTGCTTGTGTCAGGAGCAGATT
TTGAGGTATTCTGAGTGGAGAGCCACTCTTTTTGACCTGCCCTACATCAGAAGTCACCGAGCTCCCAGCCTGC
AGCCAGTGTGGAGGCCAAAGGATATTGAGTTTCAGCTTATGCCAGCACTGGTCAGCATGCTCAAGAGTGCTAAT
ITAGGTCTTTCTGTGGAATTTGGAACAATTCTAGTTTACACATGTGAGAAGAGTTGCTGGCCCCCAAATCATCAG
ACTCCCATGGAAGAATTTGTATTATACAAGAAGACCCAGATGAATTATTGTTTAAGTTAGAGCATTTCCTTTTAT
TAATATAAATTAAAACAAATGTTTACATCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1549

MAAVLKPVLLGLRDAPVHGSPTGPGAWTASKLGGIPDALPTVAAPRPVCQRCGQPLALVVQVYCPLEGSPFHRL
HVFACACPGCSTGGARSWKVFRSQCLQVPEREAQDAQKQGNLAAEDWCEGADDWGSDEEGSPQFTLDFGND
SSAKDWDWTARLQDLRLQDAVLGAHPVPPGLPLFLPYICVADEDDYRDFVNLDHAHSLLRDYQQREGIAMDQL
LSQSLPNDGDEKEYEKTIIKSGDQTFYKFMKRIAACQEQILRYSWSGEPLFLTCPTSEVTELPACSQCGGQRIFEF
QLMPALVSMLKSANLGLSVEFGTILVYTCEKSCWPPNHQTPMEEFCCIQEDPDELLFK

1701/2682
FIGURE 1550

CCTCGCCCCGCCTACGCGGGGAACCCAACCGCGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTGCTGC
AATGGCCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCCACGGGGCCGTGGAACAGCACAATGGCAA
GACCATTTTCGCCTACTTTACGGGTCTAAGGACGCCGGGGGAAAAGCTGGTGCCCCGACTGCGTGCAAGGCTGA
ACCAAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCTACACTACTTAAGTATGG
AACACCTCAAAAACTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAATGTTGTCTCTGAAGATTTAAGA
TTTTAGGATGGCAATCATGTCTTGATGTCTGATTGTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAATGCCCATGAACCT
TTAGTTTGCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGGTAATACCTAAAACTCCTAAAGGTGCAGAGC

1702/2682
FIGURE 1551

MARYEEVSVSGFEEFHRAVEQHNGKTIFAYFTGSKDAGGKSWCPDCVQAEPVVREGLKHISEGCVFIYCQVGEKP
YWKDPNNDFRKNLKVTA VPTLLKYGTPQKLVESECLQANLVEMLFSED

1703/2682
FIGURE 1552

GGCACGAGGGTCATCGCCGCGGGGCGGAGGCGACAGTGTCTAGCGGGAGCTCCGCGTGTAGCTACGCCGGCCGCC
TGGCTTTGAGACAACGTGATTCTCCGCAGCTGGTCGCCTACCCGTGATGTTCTGCCCACGTCGAGACCTGAGCTG
AAATGGCAGACGATCTCGGAGACGAGTGGTGGGAGAACCAGCCGACTGGAGCAGGCAGAGCCCAGAAGCATCAG
ATGGTGAAGGAGAAGGAGACACAGAAGTGATGCAGCAGGAGACAGTTCAGTTCCTGTACCTTCAGAGAAAACCA
AACAGCCTAAAGAATGTTTTTTGATACAACCAAAGGAAAGAAAAGAGAATACCACCAAGACCAGGAAAAGAAGAA
AGAAGAAAATTACTGATGTTCTTGCAAAATCAGAACCAAACCAGGGTTACCTGAAGACCTACAGAAGCTGATGA
AGGACTATTATAGCAGCAGACGCTTGGTGATTGAATTAGAAGAACTGAACCTGCCAGACTCCTGTTTCCTCAAGG
CCAATGATTGACTCACAGTCTTTCCTCATACCTAAAAGGAATTGTCTTAAGTGGGTAAAACCTTAGGAAGAACC
ACAGTGAGAAGAAATCGGTCCTGATGCTGATCATCTGCAGCTCGGCCGTCCGAGCCCTGGAGCTCATTAGGTCGA
TGACAGCATTGAGAGGAGACGGCAAAGTTATAAAATTATTTGCAAAGCACATAAAGGTCCAGGCGCAGGTAAAGT
TGCTGGAGAAGCGTGTGGTGCACCTGGGTGTAGGAACCTCCGGGGAGAATTAAAGAACTTGTTAAACAAGGTGGCC
TTAATTTGAGCCCCCTTAAAATTTCTGGTTTTTACTGGAACCTGGAGAGATCAGAAGTTGAGGAGAATGATGGACA
TTCCCGAGATAAGAAAGGAGGTATTGCAACTTCTGGAAATGGGAGTGCTCAGTCTGTGCAAGTCAGAAATCCTTGA
AACTGGGCCTTTTCTAAGTCTGTGTCCTAATGAAGATTCCAGTTTTCACAGTAGAAGTTGCATCTTATTTAATGA
CTCTGATACATTGCAAGCACTCAGTAAATATCAGCAAATAGTTTATGTTAATTGTGTCAACAGATGGATCACTGG
AATGTGGGGATTCTGAAACAGAAATGAAACTGTCCTTTTGACAACCTCTCTTATATAATAAAGTATCACCGGCTTG
TGTATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1553

MADDLGDEWWENQPTGAGSSPEASDGEGEDTEVMQOETVPVPVPSEKTKQPKECFLIQPKERKENTTKTRKRRK
KKITDVLAKSEPKPGLPEDLQKLMKDYYSSRRLVIELEELNLPDSCFLKANDLTHSLSSYLKGICPKWVKLRKNH
SEKKSVMMLIICSSAVRALELIRSMTAFRGDGKVIKLFAXHIKVQAQVKLEKRVVHLGVGTPGRIKELVKQGGL
NLSPLKFLVFDWNWRDQKLRRMDIPEIRKEVFELLEMGVLSLCKSESILKGLF

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FIGURE 1554

GGGTGTTGCGACTGCTAGAGCCGAGCGAAGCGATGCCCTAAATCAAAGGAACTTGTTTTCTTCAAGCTCTTCTGGCAG
TGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTGCTCCAGAAAAACCTGTAAAGAAACA
AAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCAGCAGCAGAGATGATAACATGTTTCA
GATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGCTAATTGATATTAGAGAATATTGGAT
GGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATCCAGAACAATGGAGCCAGCTGAAGGA
ACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAATTCGAGCCATATAAATAAAACCTGTACTGTTCT
AGTTGTTTTAATCTGTCTTTTTACATTGGCTTTTGTCTTCTAAATGTTCTCCAAGCTATTGTATGTTTGGATTGC
AGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAATAATATGAGTGAAGCTAATTGTCAACTT
TATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAATAATAAATCAAGTAATACAATCTTAACTGTTGTGGCC
TTTTTGTATCATAAGAGTTGGTACTGTTTAAAGGCCAAAAGTAACAGTTTTTATAGATCTTTTAGTTTCAACTCAG
CTTTTACAATAAAAAGGATTGTATTGCATTGAGTTTATAAACTTTTGGTTTGTGAACCTCATATTTGATCTTTT
CTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCAATGGTTTTTCACTCTTTTTATTACTTTCATT
TCCTTTAATAACTTAATCTCTTCAATGTTTCACTTTTACTTCACTCTTTATTCTTTCTTTGATTATGGTATGCTT
ATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTATATGAGAACTACAATCACCGAATCT
ACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGTGAAAACCTGAGCAGGTGTTTGTTTAC
CCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTAGATGAGATGTCTGACTTGCTTTTAC
TTATTAACATGTTTACCATGGGATGATGTCTGTAACATCAGATATTGTTCACTAGACTAGGATTTAATAAAAA
TTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1555

MPKSKELVSSSSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGKRGISLNPEQWSQLKEQISDIDDAVRKL

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FIGURE 1556

ATTTTCCGGGAAGATGGCGGCGCACAAAGTCAGGTCCGGGCACATGTTTCCGCGGAGCGGACCCAGCAATGACGGAT
GATATCACCTCTTCTTCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTCTCACCATGAATGTCACCCCAGAGGT
CAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCG
GAAGGAGAATGGTATCACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGC
CAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGGAACCTGGGCA
GGATGGAGTACAGATAAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCCAAGCCCAACTTGCTGTATCA
GAAGTTTGTGAAGATGGCCACATTGACTTCAGGTGGAGAGAAGCCAAACAAGACTTGGAGAGCTGCAGTGATGA
CGACAACCAGGGGTCCAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGC
ACACAAGGCTGCCCCGTCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCT
GGCTCGTCTCAAAGGCCAGGACCCTGGGGCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCAAAAAAAAAAAAAA
AAA

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FIGURE 1557

MNVTPEVKSRGMKFAEEQLLKHWTOGKGLGRKENGITQALRVTLKQDTHGVGHDPAKEFTNHWWNELFNKTAAN
LVVETGQDGVQIRSLSKETTRYNHPKPNLLYQKFVKMATLTSGGEKPNKDLESCSDDDNQGSKSPKILTDEMLLO
ACEGRTAHKAARLGITMKAKLARLEAQEAFLARLKGQDPGAPQLQSESKPPKKKKK

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FIGURE 1558A

GTGGACCCAGGGTGGGGAACCTACCTCTTCTCTCCACGCGGTTGAGAAGACCGGTCGGCCTGGGCAACCTGCGCT
GAAGATGCCGGGAAAACTCCGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGCG
AAAGCAAACCGAGGAGAAAGAGAAAAAGAGAAGCCAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGA
AACTGTTTTTCCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATC
CAAAAAGGCAAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCTAAAACCAAAAGTTTGAGAAAGAAAA
GGAGCCCATTGAAAAGAAAGTGGTTTCTTCTAAAACCAAAAAAGTGACAAAAATGAGGAGCCTTCTGAGGAAGA
AATAGATGCTCCTAAGCCCAAGAAGATGAAGAAAGAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAA
ACTGAAGAATGGATTTCTCATCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGA
GATAGAGCAGGAAATACCTGTGGAACAAAAAGAGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAA
ACTTCTCAAAGGCCGAGGAGTGACCTTCTATTTCTTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAA
GGACTTAATTGCACAGGCACGGACAGGAAGTGGGAAGACATTCTCTTTTGCCATCCCTTTGATTGAGAACTTCA
TGGGGAAGTGAAGACAGGAAGAGAGGCGCTGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAA
TCAAGTAAGCAAAGACTTCAGTGACATCACAAAAAGCTGTCAGTGGCTTGTTTTATGGTGGAACTCCCTATGG
AGGTCAATTTGAACGCATGAGGAATGGGATTGATATCTGTTGGTGAACACCAAGTTCGTATCAAAGACCACATACA
GAATGGCAAACCTAGATCTCACCAACTTAAGCATGTTGTCTGGATGAAGTGGACAGATGTTGGATATGGGATT
TGCTGATCAAGTGAAGAGATTTTAAGTGTGGCATACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTT
TTCTGCAACTTGCCCTCATTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCT
GATTGGTAAAAAGACTCAGAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGC
AGCAGTTATTGGGGATGTATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAA
AGAAGCCCAGGAGCTGTCCAGAAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGCAATGGAGACATTCCACAGAA
GCAAAGGGAATCACCCCTGAAAGGTTTTAGAAATGGTAGTTTTGGAGTTTTGGTGGCAACCAATGTTGCTGCACG
TGGGTTAGACATCCCTGAGGTTGATTGGTTATACAAAGCTCTCCACCAAGGATGTAGAGTCTACATTCATCG
ATCCGGGCGGACAGGCAGAGCTGGAAGGACGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTT
AGTACAAGTGGAGCAAAAGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAGC
TTCCAGCAAAGATGCCATCAGGCTTTTGGATTCCGTGCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGA
GAAGCTGATAGAGGAGAAGGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTCAAGTGCCACGTCCGT
AGACCAGCGCTCCTTGATCAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAAGTCTCAATTGAAATGCCAAA
TATTAGTTATGCTTGAAAGAACTTAAAGAGCAGTGGCGGAGGAGATTGATTCAAAGTGAAGGGAATGGTTTT
TCTCAAAGGAAAGCTGGGTGTTTGTCTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGA
TTACAGACGCTGGCAGCTCTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTT
CAGGGGACAGCGGGAAGGCAGTCGAGGCTTCAGGGGACAGCGGGACGGAACAGAAAGATTCAAGGACAGCGGGA
AGGCAGTAGAGGCCCGAGAGGACAGCATCAGGAGGTGGCAACAAAGTAACAGATCCCAAAACAAAGGCCAGAA
GCGGAGTTTCAGTAAAGCATTGGTCAATTAAGTAAATAGAAATAGAAGATTTATATAGCAAAAGAGAATGATGTTTGG
CAATATAGAACTGAACATTATTTTTTCATGCAAAAGTTAAAGCACATTGTGCTCCTTTTGACCACTTGCCAAGTC
CCTGTCTCTTTCAGACACAGACAGCTTCATTAAATTATTTTCATCTGATCATTATCATTATAACTTTATTGTT
ACTTCTTCATCAGTTTTTCTTTTGAAGGTGTATGAATTCATTACATTTTTATTCTAATGTATTATCTGTAGAT
TAGAAGATAAAATCAAGCATGTATCTGCCATACTTTGTGAGTTACCTGTCTTTATACTCAAAGTGTCCCTTA
ATAGTGTCTTCCCTGAAATAAATACCTAAGGGAGTGTAAACAGTCTCTGGAGGACCACTTTGAGCCTTTGGAAGT
TAAGGTTTCTCAGCCACCTGCCGAACAGTTTCTCATGTGGTCTTATTATTTGTCTACTGAGACTTAATACTGAG
CAATGTTTTGAAACAAGATTCAAACCTAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGGA
AGATGTAGTATGTTTTGATGTGGATTACCTATCTTATGTTCTGTTTTGATACATTTTTAGCTTCTCATTATAAGGT
GATTCTAGCTTTAGTGAATCTTCATAGATAGTATATATAAAGTACATTTTAATAGAAAGCCAGGGTTTTAAGG
AATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGT
ACTCCACTTCTCTTATTTGGAAGATTAACTATTTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGC
ATTGCTCAAGAGTATGTAAAAAAGAAAAAAGAAAGAACCAAACTGGAATAATCAAATGCAAAAGGTA
ACAAATTCATAACTGGAAAGCAAAGAGAAGAAAGTATGATTTGGATGATAAAGCATTGTTTTAATGGTGAAAA
CTTCACAGATCACTAATGTTTTCTAGAGTTAACTTCAAGTGGGCAAGCTGGGGTTTTAGGTAGTCACTGGCCTA
GTTCTAAAGCCACAGTATAGGATCTGTAAACTGAATGTCTGTTGAAAGTTTTGTTTTAGCTGCTTGGAGGCTTC

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FIGURE 1558B

CTTTTAAGACAACTGTATGTGATTAAGTTGTTTTGAGGGAACCTGAAGAACCTGAIGTAGCCCTGGCCAGATAA
CTGCCTGATTTCTCAGATATTATTTCTCTGGGAAACATTCTACATAGCACAGGAGCTTAAGAGTGGCATTATCTT
CTCGCCTTAATTTCCAGAGATTATTTCTGTACTGAGAATCCTGGAACCTACTATGCTAGGAAATTTAAAGCTGCAT
GGTCTGTCTTGTTTTCAATTAATTATTGTGAATACCTAGAATCTTTCTTGCTGATTCTCTTGCTTAATCCA
GTCTTTATCTCTAACTGCCCCCTTATTTGATCACCATGTACTAGGAGCTCTGATAGCCAGCTCAGCTCCTAATCCT
TGAGGCAACATTCTTTTTCTATTTGAACTTCAGTTCTGTCCTTGAATCCCGACTAGATATTTCTTGCCCTCTGGT
CTCAGAATTCTCTTGCTTTTATTCCTTGATCCACTTGCCAGTTTTATCACTTTACCCTTGTTCTCATGGCTTC
CCATCAAGCCATGGGTATTAGGTGACAGTGTAATTTATTAGATTCTGGTTTTGCCCAAATACIGGGCATGCTTTA
ATAATAACTGAACCATTTCAATTATTTGGATAGGCATGGGTACCTTATCAAGCAGATTAAAAGGATATGGTACCCG
TCCTTTAGAAAAGAACAGCTAAAACCTTGTTGTGGATTATGGATTTAGCCTAAAGAAAAATAATCTGGCATAAAT
TAAGAGTAAGAGAGAAGATTAATAGAAATTCACCTCACATAACTTAAACATGGCTATTTCAATAAAGGACTAA
AGTTTCTCCTGGATCCCAGAATTCAACCTGTATTTATAAATGTATAATGTATTTAGCTACTTTTTGGTTTTAAATG
AACTTGTGGGTTAGCTTGGTAAATGTTATAATTTTACTGTTTTCTACAAAGAAAATATTTTCTAATTTAAGTT
GGAGCTATCTGTGCAGCAGTTTCTCTACAGTTGTGCATAAATGTTTTTACTATAAAATGAGCTAATGTATAAAT
ACTGCTGTATACCATAATAAAGATAGTAATACTTGAAAAAA

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FIGURE 1559

WTQGGELPLPLHAVEKTGRPGQPALKMPGKLRSDAGLESdTAMKKGETLRKQTEEEKKKPKSDKTEEIAEEEE
TVFPKAKQVKKKAEPSEVDMNSPKSKKAKKKEEPSQNDISPKTKSLRKKKEPIEKKVVSSKTKKVTKNEEPSEEE
IDAPKPKMKKEKEMNGETREKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIK
LLKGRGVTFLEFPIQAKTFHHVYSGKDLIAQARTGTGKTFSAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELAN
QVSKDFSDITKKLSVACFYGGTPYGGQFERMRNGIDILVGTPGRIKDHQNGKLDLTKLKHVVLDDEVDMQMLDMGF
ADQVEEILSVAYKKDSEDNPQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRA
AVIGDVIRVYSGHQRTIIFCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAAR
GLDIPEVDLVIQSSPPKDVESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIKA
SSKDAIRLLDSVPPTAISHFKQSAEKLIEEKGAVALAAALAHISGATSVDQSLINSNVGFVTMILQCSIEMP
ISYAWKELKEQLGEEIDSKVKGMVFLKGKLGVCDFVPTASVTEIQEKWHSRRWQLSVATEQPELEGPREGYGGF
RGQREGSRGFRGQRDGNRRFRGQREGSRGFRGQREGSGGNKSNRSQNGQKRSFSKAFGQ

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FIGURE 1560

CGAACACGCCGCGGTCTCGTCGTGGTGAGCGCAGCCACTCAGGCTGGTCCTGGGGGTGGGGCTGTAGGGGAAAG
TGCTAAAGCCGCTGAGTGAAGTAAGAACTCTGCTAGAGAGGAAATGGCTGCTTCATCATCATCCTCCTCAGCTGG
TGGGGTCAGTGGAAAGTTCTGTCACTGGATCTGGTTTCAGTGTCTCAGACCTTGCCCCACCACGGAAGCCCTTTT
CACCTACCCCAAAGGAGCTGGAGAGATGTTAGAAGATGGCTCTGAGAGATTCTCTGCGAATCTGTTTTAGCTA
TCAAGTGGCATCCACGCTTAAACAGGTGAAACATGATCAGCAAGTTGCTCGGATGGAAAACTAGCTGGTTTGGT
AGAAGAGCTGGAGGCTGACGAGTGGCGGTTTAAGCCCATCGAGCAGCTGCTGGGATTACCCCCCTCTTCAGGTTG
A TACTGCCTGGATGGTCACCTCTGGTGCGCAGCAAGTGCAAAGCCAGTGGGGGACTTTCTCACAGCTTACATAGC
CATCCAGAGATCCACAGCTACGTCACTGAATTGTTAATGCACATTTGTACTTGGTTTTCTGTATCTATTACAG
GCAACAAATACTTATATGTGTGATCTTTCAGGGAATGTTTTGTTTTATTTGTTTTTAAAGTATTGGAATCAGAT
TAAGACAATCAGTTTCAGAGAACCAGGAGGTTTGGGGTTAAGAGATACTCAAAAATTTTCACAAGCCAAGTAGGG
CATAATATCAGATTTGGCCAACTGAATGGCGTCTGTCTGTATCCATATGGTGCCTGGAAATATTTACCAGTCAA
GGTCAAGGTCAGCATCTGTGGTTAAAAATATAGCATTCTGACCTAAAAAGTTATTTTGAGATGAATGTGTTTT
CAACTCAGGACCTATCCAAATGAGGAATTTTAAATATTCTTTTTTTTTTCTATTTTGTAGACATCAATTCTATA
GATTCTGACTTTTTCTAACCTCTTATAGACATGCCAAATGCTGGCAAAAAGAAGTGCTTTTTGGATATGGCAGCA
CTTGTAATAAAGCAGTAAGCAAAATCCTTTTAAACACAGAAATCCTGAGTTCTTCTCATTTGGTGGACTCAAG
CAATTCTGTAGCAAATAAATCCTTTGAAAGAGCTCCAAAAAAAAAAAAAAAAA

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FIGURE 1561

MAASSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSERFLCESVFSYQVASTLKQVKHDQQ
VARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

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FIGURE 1562

AGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTCTGGCCCGGCTGGGCCAATCCTGTCGCTT
AATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGAAGCGCATAACCCAGCGAAAAAACAA
GAACAACCTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCCAGATCTTTTCATAT
TTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATAGCAAAGGCTATGCA
TTTGTGGAGTTTGGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACCTGTTTGGTGAAAGA
CTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGTCTTTAAAGACTGGAATATTCCATTTAAG
CAGCCATCATATCCATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTACGGATGGAGGAGCGA
TTTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATTTTCCTTCTTTGATT
TTACAGAAAACGGAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTTTACGTAAGAAGAAG
AAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACACCAGTTTGTACACCA
ACATTTTGGAGAGGGCGAAAATCTCAAGTGGCTGAAGTGAATGATGATGATAAAGATGATGAAATAGTTTTCAA
CAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGAAAAAAGACGAAGA
AGCAGCAATCAGTGATTTCAATGTATTATATTTCTTTGAAAAATATAATATTTTATGAGAGTGGACTTTGT
TTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTTTGGTCAAGTTAAGG
AAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCTTGCACTGGCTTGGC
TGACATTGCCTCTCTGTCCCTGGCCTCTAGTTTCTTTTGATATTTTCATAGCTCTCCTTAGTTTACTCTGCCTGGA
TAGAAAGTTGACCACTAAGTGCAGGTTTAAAGTAACTGCAGCCTTTTCTGTGCGCCAGCAATTAAAGACCACC
AATCTTGTTTGTCCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGATTTCAACATCAGAT
GGTTGAAGCTGGAAGTTTAAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGATTTGTTTATGTGTT
CAGATTTTAAATAGAGATTCAAAAATGACTCATTTTACCAATAATGTTAAATTAGTTTTGGTTGTGCTAGCATGA
ATTAATAACCAACATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAACAATAACCAGCAATT
AAACTTTTTTCTACAATGTAAAAA

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FIGURE 1563

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPEKVKELFKDOWNIPFKQPSYPSVKRYN
RNRTLQKLMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPE
KTIVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1564

AGCGGGTTTGCGGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTCTGGCCCGGCTGGGC
CAATCCTGTCGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC
AGCGAAAAAACAAGAACAACCTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC
AGATCTTTTCATATTTCTCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAATA
GCAAAGGCTATGCATTTGTGGAGTTTGAAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC
TGTTTGGTGAAAGACTCTTGGAGTGTCAATTTATGCCACCTGAAAAAGTACATAAAGAAGCTCTTTAAAGACTGGA
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC
GGATGGAGGAGCGATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAGGAATTGACTATGATT
TTCCTTCTTTGATTTTACAGAAAACGGAAAGTATTTCAAAAATAATCGTCAGACGTCTACAAAAGGCCAGGTTT
TACGTAAGAAGAAGAAAAAGTTTTCAGGTAAGTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC
CAGTTTGTACACCAACATTTTGGAGAGGCGAAAATCTCAAGTGGCTGAAGTGAATGATGATAAAGATGATG
AAATAGTTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA
AAAAAGACGAAGAAGCAGCAATCAGTGATTTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTATGA
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTGGCCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGT
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAAAGTACTAACTGCAGCCTTTTCTGTGCGCCAGC
AATTAAAGACCACCAATCTTGTGTGTCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCAGTTTTAGCACAGA
TTTGTATGTGTTTCAAGTTTTAATAGAGATTCAAAAATGACTCATTTTACCATAATGTAAATTAGTTTTGG
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC
AATAACCAGCAATTAACTTTTTTCTACAATGTATTGTTTGGCAGTAGGACTTGGGAGTCATTGGAAAAAAA
ATAATAAATTTCCCTTCATTAACAAAAA

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FIGURE 1565

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN
RNRTLQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1566

ATTGAANTTAGGTGACCCNATNGAAGNGCTATNACGTNGCATGCACNGCGTACGTAAGCTCGGAATTCGGCTCGA
GAAAAAAAAAAGTGCCAGCGTATGAGGTAATTAGATTGGTTCTCTCCAGAGGTAACTGCCAAGAAGAGATGCTA
TAGATGTTACTCCTATACTGTAAACATTGTGAAATCAGATTACTTTAAATGATGTATTACAAAGTTATGCAAA
AAAGCAGTTGTGACTATGGAAGCCCAAGGCTTATATCCCAGCTCTGTCTTACACTAAATATGGGTACAGTGTTTC
CACTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAAGGGATTAAACAAA
ACAATAGTTTGTAAATTTATTCTGTCAGAGCAAACCTGCTGGTAAATAAAAGGGACTAAGTTGACGAAAAATAAATT
TTAAAAACCTAATAAAACAAGTTTGTAAATTTATAATTGTATACAAATAAAAGATGTTACAAAAATTGCGCACTT
ATATGTATGTACCATGACATAACTAATTCGTTGAACAAGTTGTGAGACAATCCTTTCTGAGAAAAGGTAGACCTG
TTACATCGTCTGTGGGTTAGGGTCATGTCAGCACGTACCAGGTACATTCTAGCTTTTGTAGAGAAAGTAAATCT
AGTGTGAGTATGTAGGCACTGAGCCAGGTGGCCTGCTTAACATAAAAGGACTGATTTTCAGGGTGGCTGTGGGAG
CCTTTCTAATGCTCTAATTCTCTAGCCCCCTGCCTGATCCAGCTGATTCCAAGAGCCAAGATTTTAGTCTTTCTT
GGTTGGCTTTTTTAAATGCTTTGGGCTTTCCTTTAATGTATCTTCAAATCATTC

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FIGURE 1567

LXLGDPXEXLXRXMHXVRKLGIRLEKKKSASV

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FIGURE 1568

GGCGCTCCGCCTGCTGCGCGTCTACGCGGTCCCCGCGGGCCTTCCGGGCCCACTGCGCCGCGCGGACCGCCTCGG
GCTCGGACGGCCGGTGTCCCCGCGCGCGCTCGCCCGGATCGGCCGCGGCTTCGGCGCCTGGGGCTCGGGGCTC
CGGGGAGGCCGTGCCCCGCGATGCTGCTCTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCCGCGCGCTGG
ACCACCTCCCGGTGAAGATCCTGCAGCCAGCCAAGGCGGACAAGGAGAGCTTCGAGAAGGCGTACCAGGTGGGCG
CCGTGCTGGGTAGCGGGCGGCTTCGGCACGGTCTACGCGGGTAGCCGCATCGCCGACGGGCTCCCGGTGGCTGTGA
AGCACGTGGTGAAGGAGCGGGTGACCGAGTGGGGCAGCCTGGGCGGCGGACCGTGCCCTGGAGGTGGTGTGCTGC
TGCGCAAGGTGGGCGCGGCGGGCGGCGCGCGGCGTATCCGCTGCTGGACTGGTTCGAGCGGCCGACGGCT
TCCTGCTGGTGTGGAGCGGCCGAGCCGGCGCAGGACCTCTTCGACTTTATCACGGAGCGCGGCGCCTGGACG
AGCCGCTGGCGCGCCGCTTCTTCGCGCAGGTGCTGGCCGCGGTGCGCCACTGCCACAGCTGCGGGGTGCTGCACC
GCGACATTAAGGACGAAAATCTGCTTGTGGACCTGCGCTCCGGAGAGCTCAAGCTCATCGACTTCGGTTCGGGTG
CGCTGCTCAAGGACACGGTCTACACCGACTTCGACGGCACCCGAGTGTACAGCCCCCGGAGTGGATCCGCTACC
ACCGCTACCACGGGCGCTCGGCCACCGTGTGGTTCGCTGGGCGTGCTTCTCTACGATATGGTGTGGGGACATCC
CCTTCGAGCAGGACGAGGAGATCCTCCGAGGCCGCTGCTCTTCCGGAGGAGGGTCTCTCCAGAGTGCCAGCAGC
TGATCCGGTGGTGCCTGTCCCTGCGGCCCTCAGAGCGGCCGTGCTGGATCAGATTGCGGCCCATCCCTGGATGC
TGGGGGCTGACGGGGGCGCCCCGAGAGCTGTGACCTGCGGCTGTGCACCCTCGACCCTGATGACGTGGCCAGCA
CCACGTCCAGCAGCGAGAGCTTGTGAGGAGCTGCACCTGACTGGGAGCTAGGGGACCACCTGCCTTGGCCAGACC
TGGGACGCCCCCAGACCCTGACTTTTTCTGCGTGGGCGGTCTCCTCCTGCGGAAGCAGTGACCTCTGACCCCTG
GTGACCTTCGCTTTGAGTGCCTTTTGAACGCTGGTCCCGCGGGACTTGGTTTTCTCAAGCTCTGTCTGTCCAAAG
ACGCTCCGGTTCGAGGTCCCGCCTGCCCTGGGTGGATACTTGAACCCAGACGCCCTCTGTGCTGTGTTCGG
AGGCGGCCTTCCATCTGCCTGCCACCCGAGCTCTTCCGCGGCGCAGGGTCCCAAGCCCACCTCCCGCCCT
CAGTCTGCGGTGTGCGTCTGGGCACGTCTGCACACACAATGCAAGTCCTGGCYTCCGCGCCCGCCGCCACG
CGAGCCGTACCCGCGCCCAACTCTGTTATTTATGGTGTGACCCCTGGAGGTGCCCTCGGCCACCGGGGCTATT
TATTGTTTAATTTATTTGTTGAGGTATTTCCCTCTGAGCAGTCTGCCTCTCCCAAGCCCCAGGGGACAGTGGGGA
GGCAGGGGAGGGGGTGGCTGTGGTCCAGGGACCCAGGCCCTGATTCTGTGCCTGGCGTCTGTCTGGCCCCGC
CTGTCAAGATGAACATGTATAGTGGCTAACTTAAGGGGAGTGGGTGACCCTGACACTTCAGGCACTGTGCCC
AGGGTTTGGGTTTTAAATTATTGACTTTGTACAGTCTGCTTGTGGGCTCTGAAAGCTGGGGTGGGGCCAGAGCCT
GAGCGTTTAATTTATTCAGTACCTGTGTTTGTGTGAATGCGGTGTGTGCAGGCATCGCAGATGGGGGTCTTTCA
GTTCAAAAGTGAGATGTCTGGAGATCATATTTTTTTATACAGGTATTTCAATTAAATGTTTTTGTACATAGAAA
AAAAAAAAAAAAAAAAAAAAAGGGCGG

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FIGURE 1569

RSACCASTRSPRAFAHCAARTASGSDGRCPRRAARPDRPRLRRLGLGAPGRPSPAMLLSKFGSLAHLCPGGVD
HLPVKILQPAKADKESFEKAYQVGAVLGSGGFGTVYAGSRIADGLPVAVKHVVKERVTEWGS LGGATVPLEVVLL
RKVGAAGGARGVIRLLDWFERPDGFLLVLERPEPAQDLFD FITERGALDEPLARRFFAQVLA AVRHCHSCGVVHR
DIKDENLLVDLRSGELKLIDFGSGALLKDTVYTDFDGTRVYSPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIP
FEQDEEILRGRLLFRRRVSPECQQLIRWCLSLRP SERPSLDQIAAHPWMLGADGGAPESCDLRLCTLD PDDVAST
TSSSESL

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FIGURE 1570A

GACCGCGGCTGCAGGAACGGAGGCGGAAGGGGCCCTGCGGCGACGACGTCGTCGACGGGGGTGGCCGTGGGAGCT
GAGCACGGAGAAGACTCCCTCTCTCGGAAGCCGGATCCCGAGCCGGGCAGGATGGATCACCACCAGCCGGGACT
GGGCGCTACCAGGTGCTTCTTAATGAAGAGGATAACTCAGAATCATCGGCTATAGAGCAGCCACCTACTTCAAAC
CCAGCACCAGCAGATTGTGCAGGCTGTGTCTTCAGCACCAGCACTTGAACTGACTCTTCCCTCCACCATATAGT
AGTATTACTGTGGAAGTACCTACAACCTCAGATACAGAAGTTTACGGTGAGTTTATCCCGTGCCACCTCCCTAT
AGCGTTGCTACCTCTCTTCTACATACGATGAAGCTGAGAAGGCTAAAGCTGCTGCAATGGCAGCTGCAGCAGCA
GAAACATCTCAAAGAATTTCAGGAGGAAGAGTGTCCACCAAGAGATGACTTCAGTGATGCAGACCAGCTCAGAGTG
GGGAATGATGGCATTTCATGCTGGCATTTCATGGCATTATTTTCAACTGGCTTGGATTGTGTTTATCCCTC
TGTATCACCATAACCATAGCTGGAAGGTATGGTGCTATCTGCGGATTGGCCTTTCCTTGATCAAATGGATCCTT
ATTGTGAGGTTTTCTGATTATTTTACTGGATATTTCAATGGACAGTATTGGCTTTGGTGGATATTTCTGTACTT
GGCCTGCTCCTTTTCTTCAGAGGATTGTGAATTATCTAAAAGTCAGAAACATGTCTGAAAGTATGGCAGCTGCT
CATAGAACAAGGTATTTCTTCTTATTGTAGAGACTGCATCAACCCGACATTCCTTTCTTATACCAATGTGAAT
TCCAGATCATCTGTAAACCTACAACCTTTAATAGAAGACTACTAATAACAGAAGACAAATTAGTGAAGAAAAGACG
GAGTTTCGAAATTGAATGGCAGGGTGGTTTTTGCTTACAAGCCATTTCTGTTCATTCTTTAAGTATCTATATTTT
ATTTGTTTTGCACATATGCATATGTGCCATTAAAGATATTTGCATATACTTGATAGAAACCATAAAGTTGTAGC
AGTTAAGTCCAGTCACATTTGGTTAATCAGTGTTTGATATAATTGAAAGAGTTGAGTGGATAAACAGTCTTCCAG
CTTGTAATGCCATTGACTTCTGACCTGACATTTAGTATAATAAAAATGAAATTCCTAACCATGTCAAATGATT
AGTTTCTGGCTCTTAGACTCATCTGGCAGTTCTACACATGAAACATCTTTTGTATATAAAGGTATTGAAACCT
GCAGTGCTGATTATTAGAAAGGATTTGTGCGATTTTGAACATGATATTTACATTATTTAGGAAAACTCTTC
CTGTAAATAACCATGCATAACTTACTTTCTGCAATGTTTTCTTAGAAATTGTGTCCAGATAGCTTTCACTAATTT
TAAATTAAGTGAATAAATATATATGTGTATATGTATACACATATATATACACACACATATATATTTAGAA
ACGTGAGTGTTAAAGATAGAATTTGTTTTAGGACAAATTTTAAAGAAAATGTGGGAATACCAATGTCTTTATAA
GAAAAATAAATTTGTTTTAAGGGACATACCAGTTTAGGGATTTTCAGATGGGAAGCTGCATTTTAGGATTGC
CCATCTTAAGAGATCTTGCAGGAAGAGATTGTATTAGATATTATATTTATTTCATTTAAGATAATTTTCAAAGTT
AATTTTCTAAATAAGATAATTTCTCATTGTGTGTTGTCTTTTAAAGGCCAATAAAATATCTTTAGTATCATTGT
AATAATTTTTTAGAGTTTAAATTTGTAAGCTTAGCAAATAAATCTGTACTATGAATAGCTTCTTGCTTTATGA
CTTAGGATTAACCTGTAAAAAACATATCCTGAACCTGAGATATGCAAAATACTCATTTCAGTTATGGAAATGT
GTTGTGGCATATAGGACTGTGGGCTGTGTGTGTAGTGAGAGTGTGTAGCCACTATTATAACTGGAATTTAAT
TTACATTCATAAACTACTATATTTCCCATCTTGCAATCATTTTATGTCTCATCTGTTTTCTTTCCGTTATAT
CTTTGGTTTTGAATACCAACATTTAAATGATGGTATTTTATCTTTTAACTTAAAAATTATTTAATACAGCTAT
ATGGACCTTATAAAATGATTTCTTATTATTATAGACATTACTACTAAAAGGTACATCTAACTATTCAGGGAC
ATTTTCCATTTCCAAAAATAAAATTTATTATGCTTTATAACCTCTTCTGTATTTTCTAATTTTTCTATTGTCT
TTGATAAATAAAACAGTTTGTGTTTGTCTAATATAGCCTATTTTTGTTTTGTCTCATTACAGTTTACTTTCTGCG
TAGAATTTTTATTGTTATATTAATAATTTTATTGTTGTATTAAGTACCTGTGTACACCCCTTGAAGTAAGACA
GTAGCATGGGGTAAAGAAAAAATTTTAGTTAGTTGCTAATTTGGAAGTTAATTAATAAATAAAGTGTACTAAT
AACATATTCAAACTCATGCTGGATCTCTTCATATTAATTTCTTATAGACCTGTACTTTATTCTTTCAATAATTT
TTAAATGAAATTAAGCTTTGCTACATGTTAATTAATAATTACTAGGAAGCTTAGCTATCAACATCGACTTACT
AAAATTTCAATTTTAGCTTTTATGGTATATGTGCTTGTCTTGAATATGGATACATGTTACTTTTGATCCAGCAT
CAAACTTCATTTTGTGTTTTGACTTTTCCCCCAATCTGTAAGGTTCAAGTATACATATTACTGAATCCTCTA
TAATTGGCATAATTCAATGGTAGCCTTAAATCTCATCATGTAAGCAGGGGAATCAGAATGTTATTTCAAGAAT
TAATGTTCCCTTCAGATATATAAAATCCTGCATCTTCAATTCCTGTGAGCTTGAACAGCTGCTGTGTGTTTTG
GGGATGCTTGATCATCTTTGCACTCTGCTTAAAGATTGAAAAATCAAACTCTTGTTAGGGTATCTAAACATTT
TTGAGTGTGAAGTGGGATTGGAAGTTAATACAAAAAATTTCAAATTTTCTATTGTAAATGAATAAGCTAGT
CATGGCTAGGATAATCCATTTTCAATGATTTTATGCAATAAAGTGAATTTAAGGCAAAACAACACTTTCTATA
TAGTGTATGCAGGACAGATTTTAGAACTTAGATTAAATACAAATCCCATTACATTTGGTTAAATGAATCTCT
GCTTAATGGAATAAATACTAATCTTTAGCCTATTTTGTGCTATAAGATATATTTCAATTTAGACATGCCTTCTA
AGTTGTTACAGATTTTACCTGCTAAACAATATTATTTCCAGTAAACCTCTCCTAACAGGAAAAGTGGAGTT
CAAAATATCCAATTGGAGAAAAATTCAGAGTTCTTCATTAATATAATTTTTTTCATCTAGTATGTACTATTTT

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FIGURE 1570B

AAGAAGTGCAAAAAGTAATGATAGTGAATGTGATACCATACTTAACTAAGGTAATATATATCCTTAGTTTGCTCA
AAAGAGTCCTGGTTATTCCTGTTTTCTCAGCTTAATAGTGCCTCATCGTACTCTCAAAAGTGTTCTAATTTGGAG
GATAAGTTATATGATCATCCTGTGTATAATTGTAGACTGTACCAAGAAGCAACTACCTTAGCTCCACTGCCCTTT
GAGGGATGGAAGTGGGGTAAGGGCAGGAGCCAGTTATTATTGCCACAGTGTTTTCTAATGAACCATTGGCCTGT
AGAAGAGGAATAGTATTTTTTTTAATAGTTGTATTTGAATGATTCCAGCTTATCGTAAATACTAAACTGAATGGC
TTTTATATTTTTAACTGCTGTAAATGTATTTTAGCATTATTAGTTGTTTATTATTTAATTCCTTCAAATAGTC
ATATGAAAACATATATTTGATAAAGGTC AATTGTTAGATGATAATGTGCCATTCATTATCATAGGAATGICCTTG
CCCATATATAAAACATGCTGGCATGTATTTTACTTGTTAATAAAGTTGTATAGATGTGGAAGTGTGAACCTGTGA
TGCATCCTTTTCAAATCAGTTTAAGATTGCGATATTATCATGACTGTGACCTCACTAAACTGTTTATGTGACAA
ACCTTTCAAGATTGGAGATGAAAACAACACTTGTGAAATTAGGTTGGGGTTGCAACATCTTTAACTTCTCAGTT
ATTTGTATGTCAGGAAACAGATTGTGGTTTAATTTTAATAAACAAAATATCATCTTTTTGAAAAT

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FIGURE 1571

DRGCRNGGGRGPAATTSSSTGVAVGAEHGEDSLSRKPDPEPGRMDHHQPGTGRYQVLLNEEDNSESSAIEQPPTSN
PAPQIVQAVSSAPALETDSSPPPYSSITVEVPTTSDTEVYGEFYVPPPYSVATSLPTYDEAEKAKAAAAMAAAAA
ETSQRIQEEECPPRDDFSDADQLRVGNDGIFMLAFFMAFIFNWLGFCLSFCTINTIAGRYGAICGFGLSLIKWIL
IVRFSDYFTGYFNGQYWLWWIFLVLGLLFFRGFVNYLKVRNMSESMAAAHRTRYFFLL

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FIGURE 1572A

GCCTTATAAGTGGTTTAGTGCTCAGTTGGCTCTAGTAACCAGAGGACACAGAAAGTATCTTTTGGAAAGTTTAGC
CACCTGTGCTTTCTGACTCAGAGTGCATGCAACAGTTAGATCATGCAACAGTTAGATTATGTTTAGGGTTAGGAT
TTTCAAAGAATGGAGGTTGCTGCACTCAGAAAATAATTCAGATCATGTTTATGCATTATTAAGTTGTACTGAATT
CTTTGCAGCTTAATGTGATATATGACTATCTTGAACAAGAGAAAAAACTAGGAGATGTTTCTCCTGAAGAGCTTT
TGGGGTTGGGAACCTATTCTTTTTTAATTGCTGTACTACTTAACATTGTTCTAATTCAGTAGCTTGAGGAACAGGA
ACATTGTTTTCTAGAGCAAGATAATAAAGGAGATGGGCCATACAAATGTTTTCTACTTTGCTGTGACAACATTG
ATTAGGTGTTGTGCTACTATATAATGCTTGAGATATAATGAATCCACAGCATTCAAGGTCAGGTCTACTCAAAGT
CTCACATGGAAGTGAGTTCTGCCTTTCTTTGATCGAGGGTCAAAATACAAAGACATTTTGTAGGGCCTAC
AAATTGAATTTAAAACTCACTGCACTGATTCTGAGCTTTTGGTTAGTATTTCATGGCTAGAGTGAACATAGC
TTTAGTTTTTGTGTGTAAGTGTTTTCATAAGTTCACTCAAGAAAAATGCAGCTGTTCTGAACCTGGAATTTT
CAGCATTCTTTAGAATTTTAAATGAGTAGAGAGCTCAACTTTTATTCTAGCATCTGCTTTTGACTCACTTTCTAG
GCAGTGCTTATGAAGAAAAATTAAAGCACAAACATTCTGGCATTCAATCGTTGGCAGATTATCTTCTGATGACAC
AGAATGAAAGGGCATCTCAGCCTCTCTGAACTTGTAATAATCTGTCCCCAGTTCTTCCATCGGTGTAGTTGTTGC
ATTTGAGTGAATACCTCTCTGATTTATGTATTTTATGTCCAGATTCCGCAATTTCTGAAATCCAGATCCAAACAA
GCAGTCTTGCCGTTAGGGCATTTTGAAGCAGATAGTAGAGTAAGAACTTAGTGACTACAGCTTATTCTTCTGTAA
CATATGTTTTCAAACATCTTTGCCAAAAGCTAAGCAGTGGTGAAGTGAAAGGGCATATTGCCCAAGGTTACAC
TGAAGCAGCTCATAGCAAGTTAAAAATATTGTGACAGATTTGAAATCATGTTTGAATTTTCATAGTAGGACAGTAC
AAGAATGTCCTGTAGTTTCTGTTTGTATGTTTGGTCTGGCGGCTCAGGCATTTTGGGAAGTGTGCACAGGGT
GGAGTCAAAACAACCTACATATAAAAAGAGAAAAAGAGAACTTGTCATTTAGCTTTTCATAAGAAATCCCATGG
CAAAGGGTAATAAAAAGGACCTAATCTTAAAAATACAATTTCTAAGCACTTGTAAGAACCAGTGGGTTGGAGCC
TCCCACCTTTGTCCCTCCTTTGAAGTGGATGGGAAGTCAAGGTGCAAAGAACCTGTTTTGGAAGAAAGCTTGGGGC
CATTTACAGCCCCCTGTATTCTCATGATTTTCTCTCAGGAAGCACACACTGTGAATGGCAGACTTTTCATTTAGCC
CCAGGTGACTTACTAAAAATAGTTGAAAATTATTCACCTAAGAAATAGAATCTCAGCATTGTGTTAAATAAAAAATG
AAAGCTTTTAGAAGGCATGAGATGTTCTATCTTAAATAAAGCATGTTTCTTTCTATAGAGAAATGTATAGTTTG
ACTCTCCAGAAATGACTATCCATCTTGATGAGAAAACTCTTAAATAGTACCAAACATTTTGAACCTTTAAATTATG
TATTTAAAGTGAGTGTTTAAAGAACTGTAGCTGCTTCTTTTACAAGTGGTGCCTATTAAAGTCAGTAATGGCCAT
GCTTTTCTTTTAAAGTGACAATTTGACTATTCTTATGATAAGCACATGAGAGTGTCTTACATTTTCCAAAAGCAGG
CTTTAATTGCATAGTTGAGTCTAGGAAAAATAATGTTAAAAAGTGAATATGCCACCATAATTACTTAATTATGTT
AGTAGAAACTACAGAATATTTACCCTGGAAAGAAATATTGGAATGTTATTATAAACTCTTAGATATTTATAT
AATTCAAAAGAATGCATGTTTCACATTGTGACAGATAAAGATGATGATTCTAAGGCTTTAAAAATTATTCATA
AAACAGTGGGCAATAGATAAAGGAAATCTGGAGAAATGAAGGTATTTAAAGGGTAGTTTCAAAGCTATATATA
TTTTGAAGGATATATTCTTTATGAACAAATATATTGTAATAATTTATACTAAGGTCACTGGTAAGTGTGGGATT
AATATGGTCGAAAACAAATGTTATGGAGAAGCTGTCCCAAGCAAACCTAAATTACCTGTACTTTTTTCCCATTTCA
AGGGAAGAGGCAACCACATGAAGCAATACTTCTTACACATGCCTAAGAACGTTTATTGAAAAATAAATTTTTAA
AAGGCATGTGTTTCTATGCCACCAATACTTTTGAATAATGTGAACCTTACCCAAAACCATTTATCATGTCCAT
TAAGTATATTTGGGTATATAATTAGGAAGATATTTACATGTTCCATCTCCACAGTGGAATACTTATTGAGGCTA
CCAAAGTGTGCCAAGAAATGTAAGTCCTTAGAGTAATTAGAAATGCTGTTTCTCCTCAAAGCATGAGAACTAGC
ATTTTCATTTCTTATTACTCCCTTTCTATATCAATGCAATTCACAACCCAATTTTAAATACATCCCTATATCTCA
AGCATTCTATCTTGTACTTTTTTCAAGAAATAAACCAGAAATAATCCTTGGTCTCTCTATCTTCTGACCTTGTA
GCAACAGAAATGTAAAAACAGAAGGGTCCAATTTTTTACACGTTTTTTTTCTCAAGTAGCCTTTCTGGGGATTTTT
ATTTTCTTAATGAAGTGCCAATCAGCTTTTCAAATGTTTTCTATTCTCAGCATTTCAGGAAGTGATAACGTT
TAGCTAAATGAGTAGAAGTGGACTTCCCTCAACATATTGTTACCTTGCTAGCCTTAGGAAGAAAAACAAGAGCCA
CCTGAAAAATAATACAGGCTTTTTCGAGCATCTGCTGAAATACTGTTACAGCAATTTGAAGTTGATGTGGTAGG
AAAGGAAGGTGACTTTTTCTGCAAAAGTCTTTCTAAACATTCACTGTCTTAAGAGATGAGCTTTCTGTTTTA
TTCCGGTATATTCACAAGGTGGCCTTTTTAGAGAAAAACAACTCTGATGAAGACTAAAGAGGTACTTCTAAAAG
AGATTTCACTTAACTTTATTTTCTGCGCATATTTAACTCTTCTAGCACTTGTTTTTGGGATGATTAATAG
TCTCTATAATGTTCTGTAACCTCAATATTTTACTTGTTACCTAGGTTCTGAACAATTGTCTGCAATAAATGTT

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FIGURE 1572B

CTTAAGGATGGATAATACACCCATTTTGATCATTTAAGTAAAGAAAGCCTAGTCATTTCATTTCAGTCAAGAAAAA
TTTTTGAAGTACCCAGTTACCTTACTTTTCTAGATTAAACAGGCTTAGTTACTAAAAAGGCAGTCCTCATCTGT
GAACAGGATAGTTTCGTTAGAAGTATAAACTCCTTTAGTGGCCCCAGTTAAACACACATACCCCTCTCTGCTGC
TTTCAAATTCCTAGCATGGTGGCCTTTCAACATTGATTAAATTTTAAATCCTAATTTAAAGATCAGGTGAGCA
AAATGAGTAGCACATCAGTAATTCAGTAGACAAAACCTTTGTCTGAAAAATTGCTGTATTGAACAGAGCCCTAA
AATACCAAAAGACCAGGTAATTTTAACATTTGTGGAATCACAAATGTAAATTCATAAGAAGCTCTAATTA AAAA
AAAAAGTCTGAAGTATATGAGCATAACAACCTTAGGAGTGTGCTACATACTTAACCTTTTGAAGTTTTTGGCAAC
TTTATATACTTTTTTTAAATTTACAAGTCTACTTAAAGACTTCTTATACCCCAAATGATTAAAGTTAATTTTAGAG
GTCACCTTTTCTCACAGCAGTGTCACTTGAATTTAGTAGGGAAGGATATTGCAGTATTTTTCAGTTTCCTTAGCA
CAGCACCACAGAAAGCAGCTTATTCCTTTTGAAGTGGCAGACACTCGACGGTGCCTGCCCAACTTTCTCTGAGT
GGCAAGCAGATGAGTCTCAGTAATTCATACTGAACCAAAATGCCACATACACTAGGGGCAGTCAGAACTGGCTG
AGAAATCCCCCGCCTCATTGCCCCCTCTGCTCCAGGAACCTAGAGTCCAGTTAAAGCCCCCTATGCGAAAGGCCGA
ATTCCACCCAGGGTTTTGTTATAACAGTGGCCAGTCTGAACCCCATTTGCTCGTGCTCAAAACTTGATTCCCACT
TGAAAGCCTTCCGGGCGCGCTGCTCGTTGCCCCGCCCTTTGGCAGGAGAGAGGCAGTGGGCGAGCCGGGCTG
GGGCCCCGCTCCCACTCACCTGCGGGTGCCTGAAATTATGTGCGGCCCGCGGGCTGCTTCCGAGGTGAGAGT
GCCCTGCTGCTGTCTCAGAGGCATCTGTTCTGCAAACTTTAGGAAGAAAAATGTCCCTAGTACAAACGGGTGTC
TTCTGTGCATAAATAAGTACAACAATTTCTCCGAAAGTTCCGGTAAAAAGAGATGCGGTAGCAGCTGCCCTGTG
TGAAGCTGTCTACCCCGCATCTCTCAGGCGCTAAGCTCAGTTTTGTTTTGTTTTGTTTTTAAAGAAAAAGA
TGATAATTGACAGGAATTTTTTTTTATTTTTTATTTTCCATCATTCTATATATGTGATGGTGAAAGATATGCCT
GGAAAGTTTTGTTTTGAAAGTTTTATTTCTGCTTCGTCTTCAGTTGGCAAAAGCTCTCAATTTCTTAGCTTCC
AGTTTCTTTTCTCTCTTTTCTTTGTTAGGTAATTAAGGTATGTAAACAAATTATCTCATGTAGCAGGGGATTT
TCATGTTGAGAGGAATCTTCCGTGTGAGTTGTTTGGTCACACAAATAACCCTTTCTCAATTTTAGGAGTTTGGAT
TGTCAAATGTAGGTTTTTCTCAAAGGGGCATATAACTACATATTGACTGCCAAGAACTATGACTGTAGCACTAA
TCAGCACACATAGAGCCACACAATTAATTTCTAACTCTCTGTGGTCCCTAGAAAAATTCCGTTGATGTGCT
TAGGTTAAAGTTCTGAAGATACCCGTTGTACCCTTACTTGAAGTTTCTAATCTTAAGTTTTATGAAATGCAATA
ATATGTATCAGCTAGCAATATTTCTGTGATCACCAACACTCTCAGTTTGATCTTAAAGCTGAATAATAAAACA
AATCCAGCAGTAATACATTTCTTAAACCTCACAGCTCATGATATATCTTTTCATTCTGATCCTGTGTTTGCAAA
AATATACACATGTATATCATAGTTCCCTCACTTTTTATTCATTTGTTTTCTTATTACCTGTAGTAAATATATTAGT
TAGTACATGGAATTTATAGCATCAGCTACCCCGAGGAACAGCACCTGACAGGCGGGGATTTTTTTCAAGTTGT
TCTACATTTGCATAAATTAATTTCTATTATTATTCATGTATGTTATTTTCTGAATCACACTAGTCTGTGAAA
GTACAACTGAAGGCAGAAAGTGTAGGATTTTGCATCTAATGTTTATTATCATGGTATTGATGGACCTAAGAAAA
TAAAAATTAGACTAAGCCCCAAATAAGCTGCATGCATTTGTAACATGATTAGTAGATTTGAATATATAGATGTA
GTATTTTGGGTATCTAGGTGTTTTATCATTATGTAAAGGAATTAAAGTAAAGGACTTTGTAGTTGTTTTATTAA
ATATGCATATAGTAGAGTGCAAAAATATAGCAAAAATAAAACTAAAGGTAGAAAAGCATTTTAGATATGCCTTA
ATTTAGAACTGTGCCAGGTGGCCCTCGGAATAGATGCCAGGCAGAGACCAGTGCCTGGGTGGTGCCTCCTCTTG
TCTGCCCTCATGAAGAAGCTTCCCTCACGTGATGTAGTGCCCTCGTAGGTGTCTGTGGAGTAGTGGGAACAGGC
AGTACTGTTGAGAGGAGCAGTGTGAGAGTTTTTCTGTAGAAGCAGAACTGTCAGCTTGTGCCTTGAGGCTTCC
AGAACGTGTCAGATGGAGAAGTCCAAGTTTCCATGCTTCAGGCAACTTAGCTGTGTACAGAAGCAATCCAGTGTG
GTAATAAAAAGCAAGGATTGCTGTATAATTTATTATAAAATAAAAGGGATTTTAAACAACCAACAATCCCCACA
CCTCAAAGCTTGTGCAATTTTTTGGTATTTGAGGTTTTTATCTGAAGGTAAAGGGCAAGTGTGTTGGTATAGAA
GAGCAGTATGTGTTAAGAAAAGAAAAATATTGGTTTCGCGTAGAGTGCAAATTAGAACTAGAAAGTTTTATACGAT
TATCATTTTGAAGTGTGTTAAAGTAGGTTTTCTACTGTAAATGTATTAGTGTCTGCTGATTGCCATAGGGCCTGG
TAAAACTTTCTCTTAGGTTTCAGGAAGACTGTCACATACAGTAAGCTTTTTCTCTGACTTATAATAGAAAA
TGTTTTGAAAGTAAAAAAAATACTAATTTGAAAAATTGACTTGTTAGTTTCTGTGTTGAAATCATGGTTC
TAGAAATGTAGAAATTGTGTATATCAGATACTCATCTAGGCTGTGTGAACAGCCCAAGATGACCAACATCCCCA
CACCTCTACATCTCTGTCCCCTGTATCTCTCTTTCTACCACTAAAGTGTTCCTGTACCATCTGGCTGTCTC
CATGGTGTCTCTCATCTTCTCCACATCATGGACCACAGGTGTGCCTGTCTAGGCTGGCCACCCTCCCAAC
TTGACCTAGCCACATTCATCTAGAGATGGTTCTGATGCTGGGCACAGACTGTGCTCATGGCACCCATTAGAAAT

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FIGURE 1572C

GCCTCTAGCATCTTTGTATGCATCTTGATTTTTAAACCAAGTCATTGTACAGAGCATTAGTTTTGGCTGTGGTA
CCAAGAGAAAACTAATCAAGAATATAAACACATTCCAGGCTGCTGTTTTCTCTCCATCTACAGGCCACACITT
TACTGTATTTCTTCATACTTGAAATTCATTCTGCTATTTTCATATCAGGGTACAGACTTATAAGGGTGCATGTT
CTTAAAGGTGCATAATTATTCTTATTCCGTTTGCTTATATTGCTACAGAATGCTCTGTTTTGGTGTCTTGAGTTC
TGCAGACCCAAGAAGCAGTGTGGAAATTCAGTGCCTGGGACACAGTCTTATAAGAATGTTGGCAGGTGACTTTGT
ATCAGATGTTGCTTCTCTTTTCTCTGTACACAGATTGAGAGTTACCACAGTGGCCTGTGCGGTCCACCCCTGTGGG
TGCAGCACAGCTCTCTGAAAGCAAGAACCTTCTACCTATTCTAACGTTTTTGCCCTCTAAGAAAAATGGCCTCA
GGTATGGTATAGACATAGCAAGAGGGGAAGGGCTGTCTCACTCTAGCAACCATCCCTCCATTACACACAGAAAGC
CCTCTTGAAGCAAAAGAAGAAGAAAGAAAGCTTATCTCTAAGGCTACTGTCTCAGAATGCTCTGAGCTGA
ATGCTCTTGCTCCTTTCCCAAGAGGCAGATGAAAATATAGCCAGTTTATCTATACCCTTCTATCTGAGGAGGAG
AATAGAAAAGTAGGGTAAATATGTAACGTAAATATGTCATTCAAGGACCACCAAACTTTAAGTACCCTATCAT
TAAAAATCTGGTTTTTAAAGTAGCTCAAGTAAGGGATGCTTTGTGACCCAGGGTTTCTGAAGTCAGATAGCCATT
CTTACCTGCCCCTTACTCTGACTTATTGGGAAAGGGAGAACTGCAGTGGTGTCTTCTGTTGCAGTGGCAAAGGTAA
CATGTCAGAAAATTCAGAGGGTTGCATACCAATAATCCTTTGGAAACTGGATGTCTTACTGGGTGCTAGAATGAA
AATGTAGGTATTTATTGTCAGATGATGAAGTTCATTGTTTTTTTCAAATTTGGTGTGAAATATCACTGTCCAAT
GTGTTCACTTATGTGAAAGCTAAATTGAATGAGGCAAAAAGAGCAAATAGTTTGTATATTGTAATACCTTTTGT
ATTTCTTACAATAAAAAATATTGGTAGCAAATAAAAAATAAAAAACAATAACTTTAAACTGCTTTCTGGAGATGA
ATTACTCTCCTGGCTATTTTCTTTTACTTTAATGTAAAATGAGTATAACTGTAGTGAGTAAAATTCATTAAAT
TCCAAGTTTTAGCAGAAAAA

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FIGURE 1573

PYKWFS AQLALVTRGHRKYLLESLATCAF

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FIGURE 1574

GCTCGCCGGTCTCGGCACGCCGCCGTTTCGCCCCCTGCGCTGTCCGCCCTTCCCCTAGCGTTACTTCCGGTCCCT
CGCTGAGGGGGTTTCGTGCGGCTCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCA
GCTGGCCTATGCTCTGGCGCGGGGCTTCACGGCCGAGGCATCCTGTGGCTCACAAGATAATAGCCAGCTCCCC
AGAAATGAACCTGCCCACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGT
GAAGCACAGCGACGTCTGTTTCTGGCTGTGAAGCCACATATCATCCCCCTTCATCCTGGATGAGATTGGGGCCGA
CGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTCAACATCAGCTCTGTGGAGAAGAAGCTGATGGC
ATTCCAGCCAGCCCCAAAGTGATTGCGTGCATGACCAACACACCTGTGGTAGTGAGGAAGGCGCTACAGTGTA
CGCCACGGGCACCCATGCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCAC
TGAGGTGGAAGAGGACCTCATCGATGCCGTACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTATGGCTCT
GGACGCATTGGCTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACCTCGGGGCCAGGCTTT
GCTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTG
GGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGC
CTCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGAC
CCTCTTAGACAGAGTGAAGCTGGAATCCCCACAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGCTCCTCAC
AAGAAGCCTGGCCCTGGGAGGCAAGAAGGACTTAAGGCAGCATCTGTCCCCTCTGTGATTCAGAGCCCTTAGTTGA
GAGCCCCTGCCGCCCCCTGCCACCCCCCTGCCCCGCTCCCACCATTGCCCTCCTCAGCTGTGCAAGGAGAAAGCA
TGCTTAGGAAGTTTTTCAGGTCCTTGATATAAACCTCCTTAAATCTGTTTCAGACCAAGCAATGCGAGCTTCCTCT
CCTGTCCCATGTTGGAAGTTGCTCTGAAGGGGTGGTAGATGCTGGAAGCCAGACACAACCCTGCGTACGCTGCTC
AGTTGGTGGAGACTGGGGCTGGGACTGGAGTCAGCCAGCTGGGAGGAGGGCTGGGGAGGATCTGCAGCTGAAG
CCCAGGCAGGGTTGGTGTGATGCCAAGGCAAAGTGGTGAGGAGAAAACAGGAAACGGGCTTTCTCTGAATTGGT
AAATGGGAAAGAAGTGAGCAACTTAAGATTGTCACAATTAATCACAAGTGTACAGGATTAGACTGGGTTTATATT
TAACCTTTGCTTCATAGGTGTACCATTAAAGAGTGTATTTAATGCTAAGTTTAACTGCTTTAATAAAGTTTAT
TTTTAAATATCAAAAAAAAAAAAAA

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FIGURE 1575

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGVNLTRSNETVKHSDVFLAVKPHII
PFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQAPKVICMTNTPVVVQEGATVYATGTHALVEDGQLE
QLMSSVGFCTEVEEDLIDAVTGLSGSGPAYAFMALDALADGGVKMGLPRRLAIQLGAQALLGAAMLLDSEQHPC
QLKDNVCSPGGATIHAIHFLES GGFRSLLINAVEASCIRTRELQSMADQEKISPAALKKTL LDRVKLESPTVSTL
TPSSPGKLLTRSLALGGKKD

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FIGURE 1576

GGAGTTGCGCGGGCTGACGCGCCACTATGTAGCGGGTTTCGGGCGGGCCACGCGTGCGGGACAGGAACCCAACCC
CAGCCGACCTTGAGCTCCAGGAGTTCGTCTCTTACGTCTGCGGAAGTGCAGCTGCCTCAGTTCITAGCGCAGGTT
GACAACTACAGGCACAAGCCATTGAAGCTGGAATGTCCTGTTGCTGGTATTTCAATTGACTTAAGCCAACCTATCC
CTTCAGTTACAATAGGAAAGTGCCCTCTAATAAGGCCAAATATGCGTACTAACTTGTAGCAACCCACGTGTCCGTGC
AGTGCCACAGGAGCTAGAGCAGTGACAATGCTGGTGGCAACAGGGCAGTGTAGCAGGTGCTTCATGTTACCTTT
TCAACCTTTTCATTTAATTGTCACAACCTCGGAGGTGGATTCTGTTAGGGACAGGCTGCCCCAGGACCACTCCGCC
CCCGCTAACTCAATGCAGCTGACCCTTACCCTGAATACTCTGCAGCTGCATTCTGAACCGTTATCTAGGCGCTA
TAGCAAGGTCACCAGACTTGCTACACCGAAGCCCTCTGGGTGGCACGGGGGAGGTCATGAGAAACGTGGATTACA
CCCCCTTGTAATTCCTATTTTCACAAGATAATATATTGTAAGCCGGTCATGAGATTATATGTGGTAAAGTTAAT
TGAATAACAACCCAGGGTCTCTCTCCCCATATAAACCCCTCATTTTGTAGCTCAGGGCTGCCACCTCCGACT
GGTGAGAAGCCTGGCAGGTTAATAAACTTACTTGGCCIGAC

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FIGURE 1577

GGGGCGGAGAGAGGCGAGCACCGGGAAGGGGAGCGTGGGGCCGCTGGAATGGTGAATTTAAGGTCCATCGAGTA
CGTTTTCTTTAATTATGTTCCATCAGGAATCCGCTGTGTGGCTTACAATAACCAGTCAAACAGATTGGCTGTTTCA
CGAACAGATGGCACTGTGGAAATTTATAACTTGTGAGCAAACTACTTTCAGGAGAAATTTTCCAGGTCATGAG
TCTCGGGCTACAGAAGCTTTGTGCTGGGCAGAAAGGACAGCGACTCTTTAGTGCTGGGCTCAATGGCGAGATTATG
GAGTATGATTTACAGGCGTTAAACATCAAGTATGCTATGGATGCCCTTGGAGGACCTATTTGGAGCATGGCTGCC
AGCCCCAGTGGCTCTCAACTTTTGGTTGGTTGTGAAGATGGATCTGTGAACTATTTCAAATTACCCAGACAAA
ATCCAGTTTGAAGAAATTTTGATCGGCAGAAAAGTCGCATCCTGAGTCTCAGCTGGCATCCCTCTGGTACCCAC
ATTGCAGCTGGTTCCATAGACTACATTAGTGTGTTTGTGATGTCAAATCAGGCAGCGCTGTTCAATAAGATGATTGTG
GACAGGCAGTATATGGGCGTGTCTAAGCGGAAGTGCATCGTGTGGGGTGTGCGCTTCTGTCCGATGGCACTATC
ATAAGTGTGGACTCTGCTGGGAAGGTGCAGTTCTGGGACTCAGCCACTGGGACGCTTGTGAAGAGCCATCTCATC
GCTAATGCTGACGTGCAGTCCATTGCTGTAGCTGACCAAGAAGACAGTTTCGTGGTGGGCACAGCCGAGGGAACA
GTCTTCCATTTTTCAGCTGGTCCCTGTGACATCTAACAGCAGTGAGAAGCAGTGGGTGGGCACAAAACCGTTCCAG
CATCACACTCATGACATGCGCACTGTGGCCACAGCCCAACAGCGCTGATATCTGGAGGCACTGACACCCACTTA
GTCTTTTCGTCCTCTCATGAGAAAGGTGGAAGTAAAGAATTACGATGCCGCTCTCCGAAAAATCACCTTTCCCCAC
CGATGTCTCATCTCCTGTTCTAAAAAGAGGCAGCTTCTCCTCTTCCAGTTTGTCTCATCACTTAGAACTTTGGCGA
CTGGGATCCACAGTTGCAACAGGCAAGAATGGGGATACTCTTCCACTCTCTAAAAATGCAGATCATTTACTGCAC
CTAAAGACAAAGGGTCCCTGAGAACATTATCTGTAGCTGTATCTCCCCATGTGGAAGTTGGATAGCCTATTCTACA
GTTTTCTCGGTTTTTCTCTATCGGCTGAATTATGAACATGACAACATAAGCCTCAAAGGGTTTCCAAAATGCCA
GCATTCCCTTCGCTCTGCCCTTCAGATTTTGTCTTCTGAAGATTCAACAAAGCTCTTTGTAGCATCAAATCAAGGA
GCTCTGCATATTGTTTCAGCTGTCAGGAGGAAGCTTCAAGCACCTGCATGCTTTCAGCCTCAGTCAGGAACAGTG
GAGGCCATGTGTCTTTTGGCAGTCAGTCCAGATGGGAATTGGCTAGCTGCATCAGGTACCAGTGTGGAGTCCAT
GTCTACAACGTAAAAACAGCTAAAGCTTCACTGCACGGTGCCTGCTTACAATTTCCAGTGACTGCTATGGCTATT
GCCCCAATACCAACAACCTTGTATCGCTCATTCGGACCAGCAGGTATTTGAGTACAGCATCCCAGACAAACAG
TATACAGATTGGAGCCGGACTGTCCAGAAGCAGGGCTTTACCACCTTTGGCTCCAAAGGGATACTCCTATCACA
CACATCAGTTTTTCATCCCAAGAGACCGATGCACATCCTTCTCCATGATGCCTACATGTTCTGCATCATTGACAAG
TCATTGCCCCTTCCAAATGACAAAACCTTACTCTACAATCCATTTCTCCACGAATGAATCAGATGTCATCCGG
AGGCGCACAGCTCATGCTTTTAAAAATTTCTAAGATATATAAGCCTCTACTCTTCATGGATCTTTTGGATGAAAGA
ACACTCGTGGCAGTAGAACGGCTCTGGATGACATCATTGCTCAGCTCCCACCACCCATTAAGAAGAAATTT
GGAACCTTAAACAGGGCACTGTCTGTGCTCCTTGAAGTGTCTACCCTGTTGCTTTTCAAAATCATGGTAAT
AAAACAAGTTATTCTTG

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FIGURE 1578

MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHESRATEALCWAEGQRLF
SAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGCEDGSVKLFQITPDKIQFERNFDRQKSRLS
LSWHPSGTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIVWGVAFSLSDGTIISVDSAGKVQFWD SAT
GTLVKSHLIANADVQSI AVADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDMRTVAHSPTAL
ISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLFQFAHHELEWRLGSTVATGKNGDTLPL
SKNADHLLHLKTKGPENIICSCISPCGSWIAYSTVSRFFLYRLNYEHDNISLKRVS KMPAFLRSALQILFSEDST
KLFVASNQALHIVQLSGGSFKHLHAFQPQSGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAY
NFPVTAMAIAPNTNNLVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHD
AYMFCIIDKSLPLPNDKTLLYNFPPTNESDVIRRRTAHAFKISKIYKPLLMDLLDERTLVAVERPLDDIIAQL
PPPIKKKKFGT

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FIGURE 1579

GCGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCCGCCGGGCCCC
AGATCAGGCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGG
TCCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCGTCTA
TATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTCGACAATGATCCAATTCTGGT
ACAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCCT
TCTCCAGACCCTCTGCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCCTCTT
GCATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCCAGGCATCGAGACCTTGTTCCAGCAGCT
TGCCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGA
CCCCCATGGCTTCATCTCCTACCGCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATAT
TTCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTA
TAACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAA
GACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGC
GGCTTTCAAACAGCGGCCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAA
GCAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCT
CAAACCTCAGTGCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCTCAATAAAGTAC
ATCCCAGACGCCACAAAAA

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FIGURE 1580

TCATCATCCAGAGCAGCCAGTGTCCGGGAGGCAGAAGATGCCCCACTCCAGCCTGCATCCATCCCATCCCGTGTCC
CAGGGGTACAGGGGCCCAGAAGGCAGCCTTGTTCTGCTGAGTGCCTGCCTGGTGACCCTTTGGGGGCTAGGAGA
GCCACCAGAGCACACTCTCCGGTACCTGGTCCTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTTAAACGGGGT
CTGCAGCCTGGCTGAGGAGCTGCGCCACATCCACTCCAGGTACCGGGGCAGCTACTGGAGGACTGTGCGGGCCTG
CCTGGGCTGCCCCCTCCGCCGTGGGGCCCTGTTGCTGCTGTCCATCTATTTCTACTACTCCCTCCCAAATGCGGT
CGGCCCCGCCCTTCACTTGATGCTTGCCCTCCTGGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCAAGG
CCTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAAGGGAATTTCAACGTGGCCCATGGGCTGGCATGGTCATA
TTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCCGGATTGGAATTACAATCAGCATTACAACAA
CCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTATATTCTCCTCCCATTTGGACTGTGGGGTGCCTGATAACCTGAG
TATGGCTGACCCCAACATTTCGCTTCTTGGATAAACTGCCCCAGCAGACCGGTGACCGTGTGGCATCAAGGATCG
GGTTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCTGTGTCTTGAGTACGCCAC
CCCCTTGCAGACTTTGTTTGCCATGTCACAATACAGTCAAGCTGGCTTTAGCCGGGAGGATAGGCTTGAGCAGGC
CAAACCTTCTGCGGACACTTGAGGACATCCTGGCAGATGCCCTGAGTCTCAGAACAACCTGCCGCCTCATTGC
CTACCAGGAACCTGCAGATGACAGCAGCTTCTCGCTGTCCCAGGAGGTTCTCCGGCACCTGCGGCAGGAGGAAAA
GGAAGAGGTTACCGTGGGCAGCTTGAAGACCTCAGCGGTGCCAGTACCTCCACGATGTCCCAAGAGCCTGAGCT
CCTCCTCAGTGAATGGGAAAGCCCCCTCCCTCTCCGCACGGATTTCTCTTGAGACCCAGGGTCACCAGGCCAGAG
CCTCCAGTGGTCTCCAAGCCTCTGGACTGGGGGCTCTCTTCACTGGCTGAATGTCCAGCAGAGCTATTTCCCTCC
ACAGGGGGCCTTGCAAGGAAGGTTCCAGGACTTGACATCTTAAGATGCGTCTTGTCCCTTGGGCCAGTCATTTCC
CCCTCTCTGAGCCTCGGTGTCTTCAACCTGTGAAATGGGATCATAATCACTGCCTTACCTCCCTCACGGTTGTTG
TGAGGACTGAGTGTGTGGAAGTTTTTCATAAACTTTGGATGCTAGTGTACTTAAAAAAAAAAAAA

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FIGURE 1581

MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTWGLGEPPEHTLRYLVLHLASLQLGLLLNGVCSLAEELRHIHS
RYRGSYWRTVRACLGCPLRGALLLSIYFYYSLPNAVGPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEK
GNFNVAHGLAWSYYIGYLRILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKL
PQQTGDRAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLEDILA
DAPESQNNCRLIAYQEPADDSSFSLSQEVLRLRQEEKEEVTVGSLKTSAPVSTSTMSQEPPELLLSGMGKPLPLR
TDFS

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FIGURE 1582A

AACCATAGAACATGGGAATAGGTTTTATTTTCATCTCAAGAACATTTAAGTTGGGTGAAGAAATTCAGCTTTTGT
TGTTAGAATCTGACAGGCTTCAAACACTTGTGATGGAGGGTGTGTGTCATATCAAAGTCCACCTAGTAAAGTTT
TAGGTGACCAGTGACTTTGTCAATTAGGTCTGCTGGTCTGGCCCAATCCCTAGGACAGTTTGAGAGCCTGGTGC
AATCTGAGTACGTCCAGCATCTTGAATTAACTTACAGTCAGTCCCAGCATTITTTGCATGGGCCAATAATGCAAT
CAGGGTTTTCTTCATCAGGAGCTTTGACCACCACCTTGGGCTGGCCACAGTATTTCCATTGTTTGAGCATTTCAGG
ATTTCTTCTTTGAATCTGCTTGTAGGCTGAAACAGCAGCATGAGAGCACTGGGCAGCCACTTTCCCTTTTCCCAT
CTTTAAGTCATTTCGAACCACAAGAATCATCTTGTACTCCCCGCTGTCTCCCAAGATGCTTGTCTTCACTTTTCAGT
ATCTGTGTGTCTTGTCTGCTTGTCTTTTGGGGAGCATCCCAAAGCATACTCGAAGGCTCCAGCCCCAGGCACA
TGCCACAAGCAACTCCAACAGCCAAGCCGAGTGTACTGGGATGAGCCAAATATTCATAACCAAGGATTGAGG
GCATCTACAGTACCTCCTTTCCCTCACTCGCGCCTTCCCTTCTTCTGGGCAGCGAACACGTTTCTATCGCGTGAGC
TACCTCTTCCGGGGTTTCTGGGTGACAAGTTCCGGATCAAGAATCACAAGCGAGCAGTCATTCTTCTCTTGCC
ACACCCACAGGGCCCGCACTAAGAGCCTAACTGAAATCCCGCGAGGATCAACCGAGCTCGCCGAAAGGAGGGAGG
AACGTATCCCTTCTGGAGGCTGTCTCAGGGGGCAGAGGGACCGGACCGGAAGTGACGTGAGCGGGTTCCGGTTGT
CTGGAGCCCAGCGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCGGGGGT
CGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAGAAATTTGTGACCAGAGAGCGGTGAGC
AATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCACTGAATGAAAGAAAGAGGAGGGAGCGGGA
AGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAATTTTTCTCTGGAATCCTTGTAAAT
CTTGAAGGAATGGACCTCAAAATTTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTTGTCTGTCT
TATAGCTACGTATTATGTTGAAGGAGTGATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTGTATGTC
CTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAAACAGGGCTGCACACCTTCTGCTTTATCTGGG
TCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACACCACCTATCCTGA
TCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCTCTCAAAAGTTAGGAT
TGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTCAATGGCCAGAGCAGCTCGCCT
CTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCACAAGA
CTTTGCCTCCCGGCCAAACTGGCAGTTCAAAAACCTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCTGTGC
TTCAATTCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCTTCTT
TGGTGCAACCCCTAATTTGAAAGCAATAATAAAATGCATATCCAGAAATTTTTTGTATAATAACATTCAGCAA
GCACATAGTGGAGCAATGGTGGCTTTTCAATTGGTGTGTCTCCCGGCATAGGTCCATCTCTGCAGAAGCCATTTC
GGAGTACCTGGAGGCTCAACGGCAGAAGCTTACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACCTGGTT
GTCTGGATGTTTTGAAAGTTGGTGTCTGTTGTCATGGTGTGTTACTTTCATCTATCTATCATTAACTCCATGGCACA
AAGTTATGCCAAACGAATCCAGCAGCGTTGAACTCAGAGGAGAAAACCTAAATAGTAGAGAAAGTTTTAACTG
CAGAAATTTGGAGTGGATGGGTTCTGCCTTAAATTTGGGAGGACTCCAAGCCGGGAAGGAAATTTCCCTTTTCCAAC
CTGTATCAATTTTTACAACCTTTTTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCTTCTG
TGCTAAGGTAAAGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTACGACGCA
AACTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAGGCCACATGATACAATTAGAGAATTTCCACCGCA
CAAAAAAGTTCTTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTACAAAATGATTGCTTTGTTTTCTTAA
GTCATCAAAATGTATATAAATATCTAGATTGGATAACAGTCTTGATGTTTATCATGTTACAATTTAATATTCC
ATCCTGCCCAACCTTCTCTCTCCCATCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGGAAT
TGAICTTTTAAATTTTGGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTTTATT
CTGIGTATTAGAAATGAAGTCTTGAAGAACTTTATAAAGACATCTTTAATCATTTCAAATTTGTGTCCGTTTT
CTTGAGCGTTTTGATTTTTTACTTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCTAATCCACCTACAACAAGA
ATTTCTTAAGCTTTCTTTTATTGTCATGAGAGAGCCACTACCAAGGCATGTTTTGTATGCTGAAACTGGGCTGC
TGCATACTGCTAAATGGCACCTCTGGGATTGGCTACCTGGGGATTTCTGGTTTGTGAAAACAGGAGAGGAGAA
ATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAACCACACTCTGTCGTATC
TGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTGCCGT
TCTGTAAGTGTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTGATTGAACTTGTTCAITTTGTTTTG
CTTGGGAGGAAAATAACAATTTTACTTTTTTCTTTAGGAGCATTATGAGCATTATGTCAGAATAGAATAGAAT
TGGGGTTCGATCTTAACAGGCCAGAAATGCCTGGGTTTTTTTGGTTTGTTTTTTGTTTTTTATCAAAATC

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FIGURE 1582B

CTGCCTGACTGTCTGCTTGTGTTTGCCTACCATCGTGACATCTCCATGGCTGTACCACCTTGTCTGGGTAGCTTATC
AGACTGATGTTGACTGTTGAATCTCATGGCAACACCAGTCGATGGGCTGTCTGACATTTTGGTATCTTTCAICTG
ACCATCCATATCCAATGTTCTCATTTAAACATTACCCAGCATCATTGTTTATAATCAGAACTCTGGTCCTTCTG
TCTGGTGGCACTTAGAGTCTTTTGTGCCATAATGCAGCAGTATGGAGGGAGGATTTTATGGAGAAATGGGGATAG
TCTTCATGACCACAAATAAATAAAGGAAAACTAAGCTGCATTGTGGGTTTTGAAAAGGTTATTATACTTCTTAAC
AATTCTTTTTTTCAGGGACTTTTCTAGCTGTATGACTGTTACTTGACCTTCTTTGAAAAGCATTCCTAAAATGCT
CTATTTTAGATAGATTAAACATTAAACCAACATAATTTTTTTTAGATCGAGTCAGCATAAATTTCTAAGTCAGCCTC
TAGTCGTGGTTCATCTCTTTACCTGCATTTTATTTGGTGTTTGTCTGAAGAAAGGAAAGAGGAAAGCAAATACG
AATTGTACTATTTGTACCAAATCTTTGGGATTCATTGGCAAATAATTCAGTGTGGTGTATTATTAAATAGAAAA
AAAAAATTTTGTTCCTAGGTTGAAGGTCTAATTGATACGTTTGACTTATGATGACCATTTATGCACCTTTCAAAT
GAATTTGCTTTCAAAATAAATGAAGAGCAGCTGTCCTTCTTTCCCTCTTTAAGTGTTTCAGCTGTGGCATGCTCAG
AGGTTCCCTGCTGGATTCCAGCTGGAGCGGTGTGATACCTTCTTTTTCAGCTGTTTCGTGCCTTCCTTTCTGTAT
CCACCAAAGTGGAGACAAATACATGATCTCAAAGATACACAGTACCTACTTAATTCAGCTGATGGGAGACCAA
GAATTTGCAAGTGGATGGTTTGGTATCACTGTAAATAAAAAGAGGGCCTGGGAATTCTTGCGATTCCATCTCTAC
TTTGTATAAGTCTCATTTTGTGCCTTACACATCTGCAGTATTTATCATGTTCCAACCTGGTGACTGTGAGGCAGT
GCAATACATCAGCAGTTTATCACCGAAGAGCTGAGGAATACCTCCCTTAAAACAGACAATGTC

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FIGURE 1583

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGGFGLACASIPNPLFDLAGITCGHFLVPPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEKTK

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FIGURE 1584A

TGCAACGGAACTTTTAGCTCCACGAACAGAAAAGCAAGAGCAAAAACCTCAGTTAAATGCGTTCTTCCCTCCATCT
TTGCCTAGTCCAAAAGGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAG
TTTGCTTTTTTACCTGTTTTTCTCTAGAACAGCCAGGTGGATTACATGATCCAATTTTTTAATTGTCTTCTATG
TCCCACTCCGAATAACCCGGATGCCCCAGCACAAATCAGAGAGATCGTTTTTTTTAAAAAAATTTTCAGCCTCCAA
AGGTAGGAGGGAGTGTAGGGGAGAAAGTACTTTAATTAAAAATCAATAACTCGAGGTTTTTGGGATACGGTTT
GCCATTTCTAATTAAGAAATGGGTTTGACAGTCCCTTGTACACACTGCTATGCAAACCCCAAAGGGTTGGCGG
CTGTCCGGGCGATGACACTCCCGTCCCTGCGAGACCCCGGGCCAGCCAGGCCCTCCGCGCGCCGCTCTGGGG
TCCGTCCCCGGAAGCAAGGCTCGCGCAGACCTCTCGCTCTCTCGGCTCTGTCTCCTGCGCTCAGCTCTGCTCGG
GGCCGGCCGCTCAGGCTCGCGCCACCAGGTGCTTGCAAATACCTTTTCCCTCCCCGGGGCCCCAGCGCGCGGC
CACCTCCCAGCCTCCCCCTCCCACCTGGCAGCGGGGCCCTTTCCCGGCTCAGGAACAGCAGCAGCCGGGCC
GCGCCGCGCAGGAAGCGAGGCCCATGTTGCTGTGTTCCCTGGCGCGCTCCCCGCCCTCCGGGGCCCGCCACGGC
TCTTCCGCGCTCCCCGGGCACCCCCCTCCGCGCTGCGCTGTGCCCCACGGGGCGGGGCTCAGATTCTCTGTACG
GGCGCGGGCGGTGGCGGGCAGCGTCAGTTTTCGCTGAGGAGAAACACGAAACGGACCCCTTGGCTCTCCCCCTT
CCCTTCCCCGCTCTGAACCCCTCTCTGGTCACCGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATC
GTTTCTCGGTCTCTCGGCCAGTGGAAGTCACTACCCTCGAGGAGGAGCGCGCAGCCGCTCGCGTCTCGCCG
CCCCCGGTTCCGGTGCCCGGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCCGCTCCCCCTCCGCTGCCCTCG
GGCCGGGCTGGGTGAGCTGCGATGCCCTCGGACTTCACTCATTTGCTCAGCGCGGACCTAGACCTGGAATCGCC
CAAGTCCCTCTACTCGCGAGATTCTCTGAAGTTACACCATCACAGAATTTTCATAGAGCTGGACTATTGGAAGA
ATCTGTCTATGATCTTCTCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCTGTAGCATCAATGAGTCA
GACAAGCGGTGGTGAGGCAGGCTCGCCTCTCCAGCTGTTGTTGCTGCTGGATTTCCTCTGAAGCAGGGAGTGT
CTGCATTAAAAATGACCTGTAGTTCTCTGCTTCATAGATGCTTCTTCAGCTCCCTCTCTCTCCATGGGCGGT
GTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAGTAACAGAGGGGTAAAGTGAAGAGCAGTTAACAGTAACACAGTT
CAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGTACATCTCACCACCACCTGAGGACTTGCTGGATAAC
AGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATTCC
CCCTCCAACCTCAGTAACATGAGCACCAGTTCTTACAATGATAACACTGAGGTACCTCGTAAATCACGAAAACGA
AATCCAAAGCAGAGGCCGGGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGT
GCCAAAGCACCTCACTATGTGCTTCTCAGCTTACCACGGACAACAAAGGCAACTCAAAGCGGGAATGGAACA
TTGGAAGCAACAAAAGGAACTGGAGTAAAGAAGAGCCCTATGTTGTGTGGACAATATCTGTAAAGTGAAGGA
AAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCAGGCTCGGTACCTGACTGAGGGCAGCCGTGGCTCA
GTGAAGATAGAAACACAGCAAGGCTTTCCTACAGTAAAGCTGGAAGGCCATAATGAACCTGTAGTGTGCAAGTG
TTGTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTTATCAGGCCTGCAGAGTAACTGGACGAAATACA
ACTCCTTGCAAAGAGTGGACATTGAAGGCACTACTGTTATAGAAGTCGGCCTTGATCCTAGCAACAACATGACA
CTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGATGTGGAAGCCAGAATAGGAATTGCTGGTTCC
AAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTTCAGTTAATATCATGAGGAAAGATGGCTCCACTTTGACACTG
CAAACACCCCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTGCCAGAAATCTTAAAGAAAAGCTTGCAATAGC
TGTTCACTGAAAGGAGAAGAAGAGTGTAAAAATCGGCAAGAACTTTCTGAAAGGAACTAAAGTTATTTTCCAA
GAAAATGTTTCTGATGAAAACCTTTGGAAGTCAGAAGCTGAAATTGATATGGAACATTTTCATCAGAATCATCTT
ATTGTGAAGGTTCCCTATCATGACCAACATATAACTTTGCCTGTGTGCTGAGTGGGAATATATGTAGTGACAAAT
GCTGGAAGATCTCATGATGTTCAACCATTCACTTACACTCCAGACCCAGCAGCAGCTGGTGCTTTGAATGTAAAT
GTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAAGAGGCCATGAAAGCAATGAAAACACTGGA
TGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACTCCACTCATACCAAGCAGTATGATTAAGAGT
GAAGATGTTACTCCAATGGAGGTAACAGCAGAAAAAGATCTTCCACTATTTTAAAGACTACAAAGTCTGTTGGA
TCAACTCAGCAAAACATTAGAAAACATCTCAAACATAGCAGGAAATGGCTCTTTTTCATCACCATCATCTTCCAC
CTACCTTCTGAAAATGAAAAACAGCAGCAGATTACGCCAAGGCATACAACCCAGAGACCTGACAACATTTCAA
ACCCAGGACATCTCAGCCTGGTACTTTTCCAGCAGTTTCTGCTTCTAGTCAGCTGCCAACAGCGATGCACTA
TTGAGCAGGCTACACAGTTTCAGACAAGAGAACTCAGTCTAGAGAGATATTACAGTCAGATGGTACAGTGGTT
AATTTGTCAAACTGACTGAGGCATCACAACAACAGCAGCAGTCAACCTACAAGAACAAGCACAGACTTTACAG

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FIGURE 1584B

CAGCAGATTTTCATCAAATATTTTTCCATCACCAAATAGTGTGAGTCAGCTTCAGAATACTATTTCAGCAGCTGCAA
GCAGGGAGTTTCACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGTGTGACTTGGTCCAACAAGTTTTAGAGGCA
CAGCAGCAGTTATCTTCAGTTTTATTTCTGCTCCAGATGGTAATGAGAATGTTCAAGAGCAGCTTAGTGCAGAT
ATTTTTCAACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGAATGTTTCCTCAACAGAGCCAAACAGTCCAT
ACCAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTCATCCACAGTCTGAAAACACGTTATCTAATCAA
CAGCAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCCGCAATGGTGATGGAGATGCAACAGAGTATC
TGCCAGGCAGCTGCCAGATTTCAGTCAGAGTTATTCCTTCAACTGCTTCAGCAAATGGAAACCTTCAGCAATCG
CCAGTTTACCAGCAGACTTCTCACATGATGAGTGCATTGTCTACCAATGAGGATATGCAAATGCAGTGTGAATTG
TTTTCTTCTCCTCCTGCAGTTTCTGGAAATGAACTTCTACAACACCACACAGCAGGTTGCAACCCCTGGCACT
ACCATGTTTCAGACATCAAGTTTCAGGAGATGGAGAAGAACTGGAAACAAGCAAAACAGATTTCAGAACAGTGTCT
TTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCTCAAGTTAACCTTTTTTCATCCACAAAAGT
ATGATGAGTGTTCAGAATAGTGGTACCCAACAACAAGGTAATGGTTTATTCAGCAAGGGAATGAGATGATGTCA
CTTCAATCTGGAATTTTTTGAGCAGTCTTCTCATTACAGGCCCAACTTTTTTCATCCTCAAAATCCTATTGCC
GATGCTCAGAACCTTTCCAGGAACTCAAGGTTCTCTTTTCATAGTCCAAATCCTATTGTGCCAGTCAGACT
TCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACTCTCAAAGTACCATTGTGTGTGTACAGGGCTCT
TCAGTTCTCAAGACCAGCAGTCAACCAACATATTTCTTCCAGAGTCCCATGAATAATCTTCAGACTAACACA
GTAGCCCAAGAAGCATTTTTTGAGCAGCACCAGCACTCAATTTCTCCACTTCAGTCAACATCAAACAGTGAACACAA
GCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCTATGCTTTCCCAAGAACAGGCACAACCCCG
CAGCAGGGTTTTATTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCACCTAATCCAATGCCTCAAAGCCAACAGGA
ACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAACCTCTCATCCAGGAACAGCAGCAGCAGCAG
CAACAGCAGCAGCAACAGCAGCAGCAACAACAAGAGCATTATTCAGTAATCAGAATACCATGGCTACAATG
GCGTCTCAAAGCAACCACCACCAACATGATATTCAACCCAAATCAAAATCCAATGGCTAATCAGGAGCAACAG
AACCAGTCAATTTTTACCAACAAGTAACATGGCCCAATGAATCAAGAGCAACAGCCCATGCAATTTTCAGAGT
CAGTCCACAGTTTTCTCACTTCAGAACCCAGGTCCTACCAGTCGGAATCATCACAGACCCCTTGTTCCATAGC
TCTCCTCAGATTTCAGTTGGTACAAGGGTCACCTAGTTCTCAAGAGCAGCAAGTAACCTCTCTTCTTATCTCCAGCA
TCCATGTCTGCCTTGCAGACCAGTATAAATCAACAAGATATGCAACAGTCTCCTCTTTATTTCCCTCAGAACAA
ATGCCTGGAATTCAGGAGCCACATCTTCGCTCAACCACAGGCTACTTTATTTACAACACAGCAGGAGGCACA
ATGAACCAACTTCAGAAATCTCCTGGCTCATCTCAGCAGACATCAGGAATGTTCTTATTTGGCATTCAAATAAC
TGTAAGTACGCTTTTAACTCTGGACCAGCTACATTGCCTGATCAGTTGATGGCCATAAGTCAGCCAGGCCAACCA
CAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAAATGCCAGAGAATTCTCCACTGGCATCCTCT
ATAAACACCAACCAGAACATCGAAAAGATTGATTGCTTGTTCATTGCAAAACCAAGGGAACAACCTTGACTGGC
TCCTTTTAACTGGATATAAATTCACGAAGAAAATCCTGATTCCAAGATGTCTGAGATCTTGTGGTTCCATGAG
AATTATTACTTTAAAAACAAAACAAAATATAAAAACTGTGTTTGAGTAACTGATAGATTTTACTCTGACTGCA
AAAGAGCACACCTATGCTGCTTGTGAGTGACTAACCAATGTTAATCTTCATATTTTATATTCCTAATA
ACAGTGATGACTGAGAATCTATTTGAGTTTCCAGCTGGCAGAAATTAATTGTTATTTTCTAGGCGCAATTTT
CTTAAACGTACAGTTTAAATTCAAGGCTGGACCAGTCACTTATTATTGCTATTAGAAAATAATATATCATGTTTA
CTTTTGTCTTCATTATTTTCTTCTGCTGCTTGTGTTAGTCAAGTAATGGCTTTTGAAAAGTAAAGTTCAATAA
TAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTGGCCAAAGTGAAGGAATCTTTTTTCAGTTTT
ATTGGAGAACTGAAGGGTAACATTCTAACAAGTAACTGTATGTGCAGATAGAAGTACTCTTGATTTAACACAA
AGGCAGATGATACACTTATAAACTGGGAACAGCTGGAATGCTTCTTGATTTTTATTTTTTCAGAGAGTTGTTAGT
TCTCTGGGTTTCTACTAAGGGGTTAGCCATAACTGTGCATAGAAAAATAATTATCTGTAAAAATGAAGGGGAT
AATATATGATAAATTATGTTCTGATATCCTCTACAGTAGTTTAAATTGACAGAAAAATTTGAATGTTTTCTTCT
TAACCCAGTCTTAGGCTGGTATTCCTTTTTATATATATCTATATTACTTTTCACTCTTTTCACTTTACTTTA
GAGAATATTAATATACTACTGGCTTCATGACCTGTAGCATCTTTGGCCACTTTAATCTAGGGTGACCTAGCAA
TCTGTCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGAGTTGATTCTGAGAAACAACACATTTTTCC
CCATGAACGGTGTCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAATAGGAAACAGTATAAATTTTAAATAAAAAA
AAAGGCAAACTAAAATTTCTTGAATATCACTTCTCCCTGATCTGCAGTGAGTATAAATTCAGTTGTACCTCAG
TGCTTTACAGTTTGAAGTGGTCACTTACCTGATGGTCCCACAAGCCTTAGGCTTTACAGGGTTGTATCATTGAC

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FIGURE 1584C

TTAAATGAAGAATTAACCTTGTGTTACATCTATAAAGAGCAAAATAACACACTCCAGAACCTTGGCAGTTGTAGCA
TTAGTTATACAGTTTTGGGTGTTCTTGCCACCCGTGGGATGCCTGCTTCTCACTACCACCTGTGTCTGGACACAT
GCTTAIGTCTCATTTTCCTTTTGGCATGTGGAAAGCTGTCAATGCAGTGTAAGGCCAACGTGTGTGTGGCTTCTA
TGTGTTGAGATAATGTTTTGGTATCCTTGTCGGTTTCATTTATTTTTTAAGTGTACAAAAATAACCTGTTAATT
GTTGAAGGCTACTTTTCTGTTCTTTTTTTTTTTTTTCTATCCTGTACATTTAGTTGAACGTGCGGAATTGTG
GTGTTGGTTTTGTTTACACAGCCAGATTTTTCTTCTTTTTTTGGGATGATCTTCTTTGTTCTTTGAATGG
GCTCTTTTGCTTTTCTCTTTTTTCTCATGTTTTCTCCCTCCACCTCCACCCCTTTCTTTCTCTCTCTGA
TTGAGAGGCATTGAATTACGTTTTTCAGTAGTACAGGCTTCTTGCCGATATGAAGGGAACCTTTTCAGAAAGAGACC
TACTCTGGGTCAATTAATTTTGAATACAGTTTTCAATCGTTCAAGTTTGGATGGTTTATATCTAATGTGTGTT
CATTTTTTTGGAAAGCTATATTTTGATTTTAGGAAATGGTATACTATTTGCTATTTGTACTGAGTGAGTACATT
GGCATAAATATAGAAATTTATATATATACATATATATAAACTATTCTTTTTTGCCACACATTTTTGTGGTAAATT
TGTGAGTTTGTCTGATGTTCTACCACAACGTGGCGTCTGATAACAGTGAGGGGGGTGGGTTTGTATGTCTTT
ATTGAGTATTTAAGTATCTTTTGAACAAATGACCTGTTCATCTGTGGCCATTCCATCAGCGAGTTAGTTCCTTG
ATGTCAGTAGTGGGCTAAAGGCAGCTTACTGTGTGTTTGTCTGGAGCTTTCCTCAGCCAAAGTGTAGGGTCAGGA
AACCCATTGAGGCAATGGCGTCAATGGTGTTCACAGAATGAGCCATTGAGTCTTTGCTCACTATATATTTAA
TATTTATTATTGTTGTTATTGTTATTATTAATTTGGCCTTTCTGTATTCTATGCCTTTTATTTATAAAGACACTA
AGAAAACCCATGTTTGTAATTTTAAATAACATTTTCCCATCTTGTAATATCCAGAGCTACTTTATAAATTCTCTG
AACCAAAAGTATTTTCTCAGTGTATCTCTTCTCCCCAGCCCTATTGGGAAAAATTACCCAGTATAGTTCAGG
TTATGAGGAGGATCAGCCACACAATCCAGTGCTTCAGTTTGAATAATGTAATACTAACCTAAAGTAGGGTTGG
TTGAAATTTTCAGACAAAGCAAACCCAGCAGGTATAAAAAGTAGTATAAATACAAATCTGTAAGTTATTTTGAAT
TTTCTGAACTTTTTTCTAAGAGATTACATAGGAGACTAAAGAAATCTATCTGTTCAAGTTCTAATTAGGATGATT
GTTAATCTGCACGTGTGGATGAAGTGGCGACTGGCTTGTGTGCTGACTTCTGTGGTTTAGCAAGAGGTTTATTGT
TATCAATGCTAATTGGCAATGCCAAGTCACTGGGACCAATTTTCTGTTTATAATATCTAAGTTTAGAACAGAA
TATATACCTGAACGTGTAGTGGTTTGATCGGATGGAGACAGAAAACCCGATTTTTATTCTCATAAATTTGTGGTT
ATTTATACAAGGGCTGTGCTATGCTACCATAATTCTTGTTCAATAATAAGGTTTGTGTTTTTTTACATTGTT
AAATGTTTCCCTTACCCCTAAAGGTCAATGTTAAGTACAACATTCTGAAAATACAATTTGGCTACAAAGAGTATTCA
TCTTCTTTGAAGCTCAGTGGTTGATTTTGCTAATAATGCAATTTCTGATTACTGTTACAAGTTATAGCTAC
ATATGGGAGAGACTCAGGTGAGCCAGCAAAGGCCATAGAAACAACATTTATTAATGTATTTATGGCAGAAGGA
CCTAAATAAACTGTGAGCCACCTTTTTCTTCTTTATATTGTTACATTTAAGTGTCTCGTTTCAAGCAACTCACAT
TAATGCTTGGAGCTTATCTCTTTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTTTCCCTTATTGTCAATTCATTATATATCCACACCAACATGGGTGACGATAATTCAAAGTCATATTTGCC
TCTAAGCTTGATCATGTTACCTTTATGATTAAAGTATCATGTTATTTAGCCAATGCAAATCTGTTTTAAAAA
TAGTTTTAAAAAAGAACAAGTTTTTAAGGGCTTTATTATAGAAGAAGTATTAATGAAGGACTTTCCTTCTCCCT
CCCTTTCTCCCTCCCTCCCTGCTCCCTTCTTCCCTTCCATCTCCCCCTCTCCCTGCCTTCTTTGTTTCTCTTCC
CTTATTCTCCCTCCCTCCCTTCTCCCTTCCCTTCTTCCATTATCCTTCCCTTGCCTTTTATTTTTATTTT
TTGTAATATCACATGTGCTGTAGTTTGGAATTTTATTCTAGTGCATTTCTTGCTCATCAGAACCTCAGCTAATCT
ACCTAGGAAAAATAGTATCAAAGGAAATGAGAAAGTTGTATCTGAGTCCCTCCAGAACTAAGATAATTCTTTTTG
ACCATTTAAGCCTTTATAAATGCGTTTTTGACCATTTAAGCCTTTATAAATGCTTGTTTTAGGAAAGTGAATCTGT
TAGATGCATCAACAAATAATGACCAGGACAAAACGATTTAATAATTAAGTCTCAAATCACCATGGTTATACATT
TTCACCAGAAATAGTAATCTTACAATTTTTTCATTTTTCTGATGAAGATTTCTGTTACAATATCTGTTTCTAATA
GATTTTTTAAATTAATTAGCTTTCCTCTGCTTTATGACCATAGGTTTTATCCCTAACCGAGACAGCTGTCTTATA
TCTGCATGCCCTTAGACTGTGTGGAGGACTCCATGAAGAAAGACCATAGGTTAGAAAAATAACTCATAGTATATA
CCCTAGTAAGTGGGTTAGTAGAATCTCATAACATGTATTAAGAGAGGTTTTCTTCTCTGCTTGTGTGTGCTACT
AGAGCAAAATTTAGAGATAATGCTCATAATGCAGTAAATATCAGAATAATATCTACAATATCATTGTGGATGG
TCCCAGGTCCCAGTGCTCTAGTTACTTTACTTCTTTTTTTTTTTTGTAGATGGAGTCTGCTCTGTCTCTCAGGCT
AGAGCAGTGTGCGATCTCAGCTCACTGCAGCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCA
AGTAGCCAGGATTACAGGCACCTCCACTAGGCCCGCTAATTTTTTTTGTATTTTTTAGTAGAGATGGGGTTT
TGCCATGTTGGCCAGGCTGGTTTCGAACCTCTAACCTCCAGTGATCCACCTGCCTCGGCGTCCCAAAGTGCTAGG

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FIGURE 1584D

ATTACAGGCATGAGCCACCACATCCGGTCTAATTACTTCTTTAATCCCCATTTATTTTTATGCCATTCTAGCCTC
ATTTATTAATAAAATTATGTTTTACTTTCTTTTCAGGAAATTTTTAAATTAATATTTTATATCTAGATCAAA
TGCTATGGAAGTGCCTTTTTATCATTATAATTTCAATTTTCACTATTTCCAAAACACATAAACAAATAGTT
TCAGTAGGTCCCAGCTTTTACTTTTTCCATTTAAACCTTCTTTTCTCCATTTCTTCCCTTTGGCTTAAGAATAAA
AGAAAAGGTACATTGCTAGAAATGTTTCTTTGGGAGAGGGTAAAAGATTACAGAATTAGACTGTTACGCCTTTAT
ATAAACTAAATTTGTCTTCACTCAACCAGCTAATGGTAGGTCTTATCTGAATACTCATGAGAATTTTAGCATCT
GTGAACTCCATGCACCAGATGTGTGTAATTTTCAGGAAGAAAGGTTGAAAGCATTCTCTGATGTTAATTAG
ATGGAATAAACTACTAAAACATAGTTTAGGTAAAGCCTGATTATGCCACTTTTTTAACTAGACAGGGCAAAG
TTGTTTATGTTAGTGACTTCTGTCTATCCTCAGTTAATTTACCTAGACAAAAGTGTCAAAGGAAATGAGAAA
AAGGTTATATCTGACTCCCTCCAGACCTAAGATAATTCCTTTTGATCAGATACAGTCAGATGGAGTGCCTTGTT
TTTGTTAATTTTGCTCTATTCCAGCTCCTTACCACAGCGGTGGTGCTTAAAGAAAGGATCATCAGCAACAGGTC
AGGATAGTTCTACCTTTGGGATAGGGCTGCTTTCCCGTGCTAGTATTCTGTGACTGTTAGTGGCACTGAGGAC
TGCAAACTTTTATGCAATATTTCTAATACCCTATTGATATTATGCACTTTAATCATTCCAAAGAAGCCAAGAATG
CTGTATAGTGATGATTCTTCTAATGAATTCATCTTAATCTTTAGAAATGTTATGTCCCTTTCTTTTGATAG
CCAATTTGGTATAAAATGTTATATGGATTTTTCTAAATGACTATATAGGACTTAAGACTTTGAAATGTAAATTTAC
TTATAAGGGGAAATAATTATGCTTTAGCACATCATTTTAGAAACGTCACATTTTAGAACATTCAGCTTGCTAACC
TACATGTTTGGGAATTCATTTAAACCAAGTGTCTATATATTTTGTGCCATGTATATAAGAACATTACAATATAT
CTTTTTCTACATATGTAGTATGTGCAACCAGTGGTTCAGAGTATGGTCTCAGCCACCAGCTAGTATCAGTA
TCACCTGGGAAGTGTAGAAATGTAAATTCCTTTGGCCCCATCCCAGACATACTGAGTCAGAAACTCTGGAATAG
GGCCCCGCAATCTGTTTTCAAGCCCTCCAGGTGATTCTGATGCACACTTTAAAGTTTAGGAACCACTGGGCT
AAGACTCTGTTGAGATATAGAGTTTTCTTCCACTCAGACTGATATAGTTATACATTGTTCTTACATGTAAATTC
GCTTAACCTGGTTATCTATAATCTTTTATTGGCAAAAGTTAATTTCTCAGTACTGCCTATAGAGATACAGTGTATT
TTATGTACATACACAATTAGTCTAATTTCTGATAATTCAGTTAATTTAGTTTGGCATTTCCTTACCCTTACTAA
AAGGTTTACATTAAATGACTGATTTAAATATATAGGTGCAATGTTCTATGTTTATTTAATTGTTATGACATTTA
AGTAGCTAATATAATTGACCGGTGCTAAAGTCTCCTGTTTATCCATAAAATGGGTACATTATGGGCAGTGTAAATA
CAAGCTTTCTTTTCATTGCCTAGTACTTTACCAGCAGACCACAGTTTTGCCTGGCTAGACCAACCCCTCAGAACAA
AATCATCATTCTTGTATTTATATTTGTATCTGAGATGCTAAACAAGATGGCTGGCCAGGTCAACATGGCACCTT
AACTTATTTTTTAAATAGGTAAACTTCTTCAAAAGTAGCTTGCTTTGTATAAGAACTAAGCTATCAGTATAGAT
ATAGCTATCCTTGGAGCTTATGTTTCAGACAAGAATTATTTACTAAAATAAATAAATAAACAAGATAATGCATTAT
ACATTTGGGCATTTCTCGTTTCTCAAGTGTATGCATCATGGTAAATATAAACTAACCACAAGATAGGTAGATTGA
TTCATTTCATTTTAATCTCCTTGTGTAATTCAGTACCTCCATAATTGTTCTAATCTTCTTCCCACTGTTTACAAA
TTACCAGTTAATTAACCTCGTGAAAGAAAAATTCACATATCAGAATAAAAAATAAATGTATACTCACTTTATAAAAA
TCACCACTGCTGTCTTTTCTTAATACTAGCAGTGGAATGTAAAGTGGCTTACTCTACAAATTTTGGTGCTGGCAA
ATACATAGGCAAACTGTTGGGAGCTGCTCTAGTTACATTCTCCCTTCTTATTCCCTTTTTCTCTTCTCACTTT
ATTGCATAACATATTCCTGTACCCAAAGCATTTCTACCACAGTTCTATTTGACTCCCCTTGTAAATACTCCTTTA
AAAAATTCATGTTTAAACCATATGACCCGTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCTTCTCTCTCT
CTTCCAGAAGTCATTTGCCTGGTTTGAATATTTTGTAGGGATTGCTTATTATATTATTTAGCTGATGAACCTC
AGGACAACGTCTACACACACACATACATACACGCACACAAAATCTCAGCTGTTGAAGAGTGGGCTTGAATCA
GACTTCTGTGTCCAGTAAAAAATCCTGCACTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCCAGTGAA
CTTGATCTAATTTCTTTTGATCTAATGAATGTGTCTGCTTACCTTGTTTCTTTTAAATGATAAGCTCCAAGTAG
TTGCTAATTTTTTGACAACTTTAAATGAGTTTCATTCACTTCTTTTACTTAATGTTTTAAGTATAGTACCAATAA
TTTCATTAACCTGTTCTCAAGTGGTTTAGCTACCATTCTGCCATTTTAAATTTTATTTAATTTTATTTGCTTGA
GCACACTGATCAACCACTGAAGTGCCTTCTTCCATTGTCTGCAATGATATAAGGGTTACATTTTGTGTATATG
GCTTTCATAGTTGGGATTTAGAGCACTGATACCAGATATTTTCAAGTTGTTCTCTGGGGGAATTTCAATTTGCAT
CTATGTTTTTAGCTATCTGTGATAACTTGTAAATATTAATAAAGATATTTTGCTTCTATTGGAACATTTGTATAC
TCGCAACTATATTTCTGTAAACAGCTGCAGTCAAAAATAAAACACTGAAAGTTAAAAAATAAAAAAAAAAAAAA

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FIGURE 1585

MGGACSSFTTSSSPTIYSTSVTDSKAMQVESCS SAVGVSNRGVSEKQLTSNTVQQHPSTPKRHTVLYISPPPEDL
LDNSRMSCQDEGCGLESEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNPKQRPVGVKRRDCEESNMDIFD
ADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPLCGQYPVKSEGKELKIVVQPETQHRARYLTEGS
RGSVKDRITQQGFPTVKLEGHNEPVVLQVFGNDSGRVKPHGFYQACRV TGRNTTPCKEVDIEGTTVIEVGLDPSN
NMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTLTQTPSSPILCTQFAGVPEILKKS
LHSCSVKGEEEVFLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNHLIVKVPPYHDQHITLPVSVGIYV
VTNAGRSHDVQPFITYTPDPAAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNIIIPNALMTPLIPSSM
IKSEDTVPMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIHAKAYNPETLT
TIQTQDISQPGTFPAVSASSQLPNSDALLQATQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSPLQEQAQ
TLQQQISSNIFPSPNSVSQLQNTIQQLQAGSFTGSTASGSSGSVDLVQQVLEAQQQLSSVLF SAPDGNENVQEQ
SADIFQQVSQIQSGVSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQVMESSAAMVMEMQ
QSICQAAAIQSELPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMCELFSSPPAVSGNETSTTTTQQVAT
PGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQM QHSGDNQPVNLFSSTKSMMSVQNSGTQQQGNLFGQGNE
MMSLQSGNFLQQSSHSQAQLFHPQNP IADAQNLSQETQGS LFHSPNP IVHSQTSTTSSEQMPPMFHSQSTIAVL
QGSSVPQDQQSTNIFLSQSPMNNLQNTNTVAQEAFFAAPNSISPLQSTSNSEQQA AFQQQAPISHIQTPMLSQEQ
QPPQQGLFQPQVALGSLPPNMPQSQQGTMFQSQHSIVAMQSNSPSQEQQQQQQQQQQQQQQQQSILFSNQNTM
ATMASPKQPPPNMIFNPNQNP MANQEQQNQSI FHQQSNMAPMNQEQQPMQFQSQSTVSSLQNP GPTQSESSQTP
FHSSPQIQLVQSGSPSSQEQQVTLFLSPASMSALQTSINQQDMQQSPLYSPQNNMPGIQATSSPQPQATL FHNTA
GGTMNLQNSPGSSQQTSGMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTLLSQQMPENSPL
ASSINTNQNI EKIDLLVSLQNGNNLTGSF

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FIGURE 1586

AGAAACGGCAGTGGCAGCAGCGTCCGGAGCAGCCGAGCCTTCTGGAAGCTCCAGGCGGTCTTTCTGCCGAGCCT
CGGTCCCGGGCCCCCATCCTCCCCGCCCCATCGGTTGTGTCTGGGCGGATTAAACAGTCAAGTAAAATCAAGCT
GGGTAATCATGGCAGAAAGGTGGATTGTATCCCTGTGAATGTGTTTGCTCTCATGAACATGCAATGAGAAGACTGA
TCAATCTGTTACGGCAGTCCCAGTCCCTACTGCACAGACACAGAGTGTCTTCAGGAATTACCGGGACCCTCTGGTG
ATAATGGCATCAGTGTTACAATGATCTTGGTAGCCTGGATGGTTATTGCATTGATCTTGTCTTACTGAGACCTC
CTAATCTAAGAGGATCCAGCCTACCTGGAAGCCAACCAGTCCCTCATAATGGACAAGATCCACCAGCTCCTCCTG
TGGACTAACTTTTGATATGGGAAGTGAAAATAGTTAACACCTTGCACGACCAAACGAACGAAGATGACCAGAGT
ACTCTTAACCCCATAGAACTGTTTTTCCTTTTGTATCTGCAATATGGGATGGTATTGTTTTTCATGAGCTTCTAG
AAATTTCACTTGCAAGTTTATTTTTGCTTCCCTGTGTTACTGCCATTCCCTATTTACAGTATATTTGAGTGAATGAT
TATATTTTTAAAAAGTTACATGGGGCTTTTTTGGTTGTCCTAACTTACAAACATTCCACTCATTCTGTTTGTAA
CTGTGATTATAATTTTTGTGATAATTTCTGGCCTGATTGAAGGAAATTTGAGAGGTCTGCATTATATATTTTTAA
ATAGATTTGATAGGTTTTTAAATTGCTTTTTTTCATAAGGTATTTATAAAGTTATTTGGGGTGTCTGGGATTGT
GTGAAAGAAAATTAGAACCACGCTGTATTTACATTTACCTGGTAGTTTATTTGTGGATGGCAGTTTTCTGTAGT
TTTGGGGACTGTGGTAGCTCTTGGATTGTTTTGCAAATTACAGCTGAAATCTGTGTCATGGATTAACTGGCTTA
TGTGGCTAGAATAGGAAGAGAGAAAAATGAAATGGTTGTTACTAATTTTATACTCCCATTAAAAATCTCTAAT
GTTAAGAAAACCTTAAATAAACATGATTGATCAATATGGCAGATGATTTACAGTCCATTATATGACATTTGTAAG
CCACTCAACACTAGCCTTACAAGGTTTCATGAAAGGAGGAAAACATTAATTCTTTCTGCCTTTGCTGATATAATCC
ACATAGTAATAATTTAAGCTATAATTTATTTTTAAAATGAGTGCCTCTTGGGAAGCTTCTTTTCTGTTCTAACAG
TTCCCTGTTAAAATGAAAATCTTAGGCCAGTGCAGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGG
TGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATA
CAGAAAAATTAGCCAGGGTTGGTGCATGTGCCTGTAATCCCAGCTACTCAGGAGGCCAAAGCAGGAGAATTGCTT
GAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCACCCTGCATTCCAGCCTAAGCAATAGAGCGGAGACTC
CTCCCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1587

MAEGGFDPCECVCSHEHAMRRLINLLRQSQSYCTDTECLQELPGPSGDNGISVTMILVAWMVIALILFLLRPPNL
RGSSLPGKPTSPHNGQDPPAPPVD

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FIGURE 1588A

CAGCCCGGCTTCGTCGCCGCCGCTCCCTGCTGCTCCTCCTCTTCCCCAGCCCGCGGCCATGGCGGACA
GCGCCAGCGAGAGCGACACGGACGGGGCGGGGGCAACAGCAGCAGCTCGGCCGCCATGCAGTCGTCCTGCTCGT
CGACCTCGNNNNNNNNNNNNNNNNNNNNNNNAGGCGGCGGGTGGGAAGTCGGGGGGCATTGTCATCTCGCCGT
TCCGCCTGGAGGAGCTCACCAACCGCTGGCCTCGCTGCAGCAAGAGAACAAGGTGCTGAAGATAGAGCTGGAGA
CCTACAACTGAAGTGCAAGGCACTGCAGGAGGAGAACC CGCAGCTGCGCAAAGCCAGCGTGACCATCCAAGCCA
GGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATTCAAGAAAATTCAGGCTTTGCAGAAGGAGAAA
CCCTTGCTGTAAATTATGAGAAAGAAGAATTCCTCACTAATGAGCTCTCCAGAAAATTGATGCAGTTGCAGC
ATGAGAAAGCCGAAGTAGAACAGCATCTTGAACAAGAGCAGGAATTCAGGTCAACAACTGATGAAGAAAATTA
AAAACTGGAGAATGACACCATTTCTAAGCAACTTACATTAGAACAGTTGAGACGGGAGAAGATTGACCTTGAAA
ATACATTGGAACAAGAACAAGAAGCACTAGTTAATCGCCTCTGGAAAAGGATGGATAAGCTTGAAGCTGAAAAGC
GAATCTGCGAGGAAAAATTAGACCAGCCGCTCTGCTCCACCATCGCCTAGAGATATCTCCATGGAGATTGATT
CTCCAGAAAATATGATGCGTCACATCAGGTTTTTAAAGAATGAAGTGAACGGCTGAAGAAGCAACTGAGAGCTG
CTCAGTTACAGCATTACAGAGAAAATGGCACAGTATCTGGAGGAGGAACGTCACATGAGAGAAGAGAACTTGAGGC
TCCAGAGGAAGCTGCAGAGGGAGATGGAGAGAAGAGAAGCCCTCTGTCGACAGCTCTCCGAGAGTGAGTCCAGCT
TAGAAATGGACGACGAAAGGTATTTAATGAGATGTCTGCACAAGGATTAAGACCTCGCACTGTGTCCAGCCCCGA
TCCCTTACACACCTTCTCCGAGTTCAAGCAGGCCATATACCTGGTCTATCATATGCAAGTCACACGGTTGGTT
TCACGCCACCAACTTCACTGACTAGAGCTGGAATGTCTTATTACAATTCCCCGGGTCTTCAGCTGAGCAGCATGG
GAACATCCCATGGTATCACAAAGCCCTTACCACGGAGAAGCAACAGTCTGACAAAATCAAACGGCCACGCGC
CTCCATCTCCCAACACACAGACCCAGTCCAGCCACCTCCACCTCCGCCCACCCATGCAGCCACGGTCC
CCTCAGCAGCCACCTCGCAGCCTACTCCTTCGCAACATCTCGGCGCACACCTCCTCCAGCCTTAATGCATGAGCT
TAGTCTGAATTTCAAGTTGGGACTCATCCAATGGAGCCGCTACTCAACGCCAAAGGCTTCTCTCTGGCATAT
TTGGATGACTTATTTGCACTGAGGTTATCTAGGCTTCACTATCCATTGTGTTGTAATGTTTGTGAGAAATGC
AGCCAGTGTGTGGGTCTACAACACTAACCAGACGACTTTTTCCATCAGTGTTTTACTTGAATCTTCATGTACGT
CCATTCCCTGGCTGGAACCTTCGCTGTTTGGTATTGGTATTTACGAGCAGTGTCGAATTTTTGCTTGGCCAG
AGCTTCATTCTCCTGGCTTTTAGGTTTGTAAAAGAAAAGGGATATCTTTTTTATATTTTTTCCATGAATCTGC
AGAAAATTACTGAGCTGTTGTTACCCTCCTCTCATTATAATAGTGTTTACCAACATACCAATAATTCAGCACTA
CAATTCAGACCTTTGAAAATCTGGCTTTTCAAGTGTAGAACAGAAAGTTAGATGAATCAGTGCCCAAGACATATTTT
CTGTTTAAACAGAACTTTCTACAGATACATTTTTTACAGGTTATTTTCACTGTTTATTGACATCCATGTCTCTCG
TAAAACAGATGGCCCAAAGTAATGAATCATGTGGCTGTACCTTCTCCACATAAATGGGATGGATAATTATCGTAT
ATTAAGATGTGATTCTCTTTTTTATCCTTAATGTTAATCTACTTAACCTGGCCCCCTTAACATGAGTCGATAAA
TGTTGCTCTACTCACCGGTGGTTTCAATGGCTAATTAGAATGTGTTATTTGATTTCTGCTGCAGAAGGCAGTGTG
ATTGTAACAAAAAATGCGGCTTCCCCCTTTCGTACTTCATTGTTGTTCTCTTAAAAATAGAGTTTGAACAAATA
TTTTAAAGGTGCAAAATACCATTAGAAAATACTATTGAAATGGACATTATCGCATTATCTTGGCATAATGGCCA
GAAAATATTGTATTGCTTGGCAGAAAAGAAAATAAGGTCTAAAGGAAAGTAGCACATTAGCATTGATGGCTGTTC
ATTTACCCAGTATAAGCAAGTGCAGTGACAAAGAAGTATATTCTGAATACATTATTTCCATTCAATTTAGCACA
AATAAATCAATTTGGTTTCACTTTGCAGTGAACACTGAGTCACCTTTTTCTTAACACGTGCAACATCTTAATTTT
TGTTTTTCAGCAGTTGCTGTTTTGTACTTTGGTAGTGAAGTGATTTTACCACCTGTGTTGCATATTTATATAT
GCTGTGGATGAAAATAACTTACTAGAGAATGTATATTTATGACAAGAATGTGTATCTGTTGGATATAATCAGAG
AACTGAAAAGTAATTTATCAGTAATTTTTAAGAGTCCATGTTTTGTGACAACCATCTCTAATAGCCAACCTCTTA
TTAAACACACTCCTAAAAATAAGGAACCATGACATTGTAGATATTTAATATTGTACAGTATAGAAACCTCCATTT
TTGCCCTCGAATGCATATTTAAGAGTTAACAGAATGAAAAAAGTCTTGTTGGATAATAGTGTGTTGACTAGC
GTTTTAAGAACTTGAGAGTAAAAGCAACAATAAGATTTTTTACCTCTTCTGCTTCCACCCCAAAGTGAAGC
ATCACTCAATTGTTTGAAGAACTGTAGGTCTATATAAATTTTATTTATAATGTAIGTGAATATACATAATCA
TAATACAGTTCTCAGATGCAGGGAAGAAGTTTGGCATTTAATCATTGAGGCTTTAGGTTTTTGATGTGATCAGAC
TGGGCCATGTCAAACCCGGAATTTTACCAACAGTTCACTCACCTCCTGGTACATTGCCATTCCAAGGAATCT
GAGAGTAGGCAACAAATTTTGCCTTCATGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGTATATGTTT
ATAAGAATCTTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGACCCAAACAAGAAAGTCCATAAT
GGAATGATCTTCCCTCAGCTTCTATCGATTTAGTTACCTCTTGAAAGCACAAAAATTAACATTGCCATATGT

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FIGURE 1588B

TGAATTTTTTAAAAAGCACTTGGAGTGAGCGAACATTTCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTC
AGACATCTGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAAACAGCACT
TTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAGAACAAACACTACTCTTTTGAATTT
GATGGTTCGTGTCCTTTAAAGTGTTTGAGGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCTAGGACAA
TTTCTTGGCAATTGTCTTACTACTAGGGATCAGTAAGATTTAGATTCTGAGCCCATAAATGGCAACAGCCCCCTCA
CCTATGGGAAGCTGACTTCCCTCAGTCGGGCACTTCTCATGGGGGCTGAACATGGTTCCTGCCATTCTGTTACCC
ACTCTCCCAGGTGAGCCCTGGATTGGCTCCCAGAAGGCCCTTTGTAAAATCAGTAGCCATCTGCAGGCAGGTGGG
AGCAACAGGGGCTTCAGTAGCTTCATTTCTGTCTTGACAGACAGAGACCCTTGGCTACCCTGTGCTGCTAATA
GGATAAGTACTCTGTTGCCAGATTACCATGCCTTTTATACAAAACCAAATTAACCTACCTAATACCTGACACCTC
TTTGGGCTCTGAACTGCTTTCTCTCATCAAGCATGCTAGCACTCTAGACAGAATTCTAGAAAATTGGCAGACAGT
GGAAGCCCTTTAATTGAACTTACTCCTTCGTTGACTGAAAGGAGTTTTAAATCTGAGCTCCTGAGATACTGACTA
GCAACCATGGAATGAATGTGTGACCAGAAAGTGGCTTTGACACCAAGTGCTACTGTCCCTTTGTAATTGGCTTCT
AACAGATTCAACCAGAAATAATTGATAATGTGAATTTTTGTAAATTGTTCACTTGTAGGAAAATAGAACATGTAT
CACCTTTTGTTAGGTAGACATGAACTTTCTCTGCACAAAGCCCTTGCTTTTAGAGAATGCCCAATAAGGCAAGAAA
AAGCATAGTAACTTGTGCTTTGAGAGCTCAATATTTGTATCTTATCAGTACAGAAGAAATATTTCTGTGTAACCT
GATCTTCTGTCTAGTACTTGTCTTATAGGTAACCAACACTGAAAACCTTTGTAGTGATGACTACCAAAGAAATACA
TAGTAAAACAACCTTTTATTTCCAAATTGTTAAAGAGCCAGCCATTGATGCTGCTACATGAGTTCCATGCTCAAG
AGCCATTGTAAGAGATTAAAGGGTTTTCTAGGTTTTTGGTGATTTTTTGTGTTCTTTTTCTTTGTTTTTTAGGG
TTTTTTTTTTCTTTAATTTTTTTGATTAAAAACATACACACAGCTGTTAGCATAAAGTCGTGGGGGGCATTCTTCT
GGAATGCTCAGCAGTTCTGATTAACTGCCAAGCCCAGGTTGCCTCTCATGAGGCAACTGAAAAAATCCTGTGTCT
TGATAGCATGGGTGCTGTGTGTGTGCATGTGTGTCTGCATTTCATGCCTTAACTCGGGTTACTGCACAACCTTA
GTTCTTGACTTAGTCTGCACCGTCATCTAGATTGTATTGTACATCTCGGTCTGAACTTCATCCTGGCAAAAACAA
AGTTGCAGGCACAACAGTTTAAAGATGCATTCCCTCCAGAAGAGTATCTGGTCAGGTTGACCCTGAGCCTTCTTTG
GACTTGATTGGAACCTAGCCTGGAAAGCGAAAGTGGACTGTCCAACAGAAAGATGTCAACAAGGAAAAGAGGAG
AGCCAAGCGCTAGCATGCCTTTTGCTCTGCATATCTGTGCACACTGTATGTTGTTTCATGATAGCTGTCTACAA
CTTGACTAGGTTGGAGTTCTGGTAATAGTGGCAATCTTGACATTCTTGGTCAGAGTTTAGAGAGATGTAAGACTT
TCAATTAATGTCTTATTTACTCCTTTATGTTGATTAGTCTTTGATACATGTGCTGAATCAGAAACCTAAATAAAG
ATAATTTTTTAAAATGTAAAAA

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FIGURE 1589

ARPSSPPPPCCSSSFQPAAAMADSASESDTDGAGGNSSSSAAMQSSCSSTSXXXXXXXXXGGGGKSGGIVISPF
RLEELTNRLASLQQENKVLKIELETYKLKCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKIQALQKEKET
LAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKKLENDTISKQLTLEQLRREKIDLEN
TLEQEQAALVNRLWKRMDKLEAEKRILQEKLDQPVSAAPPSPRDISMEIDSPENMMRHIRFLKNEVERLKKQLRAA
QLQHSEKMAQYLEEERHMREENLRLQRKLQREMERREALCRQLSESESSLEMDDERYFNEMSAQGLRPRTVSSPI
PYTPSPSSSRPISPGLSYASHTVGFTPTPTSLTRAGMSYYNSPGLHVQHMGTSHGITRPSPRRSNSPDKFKRPTPP
PSPNTQTPVQPPPPPPPPMQPTVP SAATSQPTPSQHS AHTSSQP

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FIGURE 1590

ATAAAATTCTGCTTGTTAAGAACAAGTTTGGCTCTGGTAACTGACCTTCAAAGCTAAAATATAAACTATTG
AAGTATGAAACGATGTCTCGTGATCTGGTGTACCCTTATCCCTGTGACGTTTGGCCTCTGACAATACTGGTATAA
TTGTAAATAATGTCAAACCTCCGTTTTCTAGCAAGTATTAAGGGAGCTGTGTCTGAAATGGCACTGTCTTGT
CAGT
CATTCTGTTTACCTTTTTCTTCTGCCCAGAGTGTATTTGTGAAGAGTCTCTTATATTATGTTTGTGGAAATCA
GCACACAACCACAATGACATTTAAGCACAGGATCATTATTAGTCTATGTTTTTAATAAACATATCAATTAAGAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1591

GGCACGAGGCCGCC**ATG**GCCTCTCTACTCGCCAAGGACGCCTACCTGCAGAGCCTGGCCAAGAAGATCTGCTCCC
ATTTCGGCCCCGGAACAGCAGGCGCGCACGCGGGCTGGCAAACTCAAGGCTCAGAACTGCAGGGCCCCCAAAA
AGAAAAGGAAGAAAACACAAAAGAAATTCCGGAAGCGAGAAGAGAAGGCTGCTGAGCACAAGGCCAAGTCCTTGG
GGGAGAAATCTCCAGCAGCCTCTGGGGCCAGGAGGCCTGAGGCAGCCAAAGAGGAAGCAGCTTGGGCTTCCAGCT
CAGCAGGGAACCTTGAGATGGCCTGGCCACTGAGCCTGAGTCTGTCTTTGCTCTGGATGTTCTGCGACAGCGAC
TGCATGAGAAGATCCAGGAGGCCCGGGGCCAGGGCAGTGCCAAGGAGCTGTCCCCTGCCGCCTTGAGAGAAAAGGC
GGCGGAGAAAGCAGGAACGGGACCGGAAGAAGAGGAAGCGAAAGGAGCTGCGGGCGAAAGAGAAGGCCAGGAAGG
CTGAGGAGGCCACGGAGGCCAGGAGGTGGTGGAGGCAACCCAGAGGGGGCCTGCACGGAGCCGCGGAGCCGC
CCGGGCTGATCTTCAATAAGGTGGAGGTGAGCGAAGACGAGCCGGCCAGCAAGGCGCAGCGCAGAAAAGAGAAGA
GGCAGAGGGTGAAGGGGAACCTCACGCCGCTGACCGGGAGGAACACCGGCAGCTGCTGGAGCGCCTGCAGGCAC
GGCAGAGCCGGCTGGACGAGCTGCGCGGCCAGGATGAGGGGAAGGCGCAGGAGCTGGAGGCGAAGATGAAGTGA
CCAACCTCTCTACAAGGCGGAGGGCGTGAAGATCCGTGACGACGAACGCCTGCTGCAGGAGGCCCTGAAGCGCA
AGGAGAAGCGCAGGGCGCAGCGGCAGCGCCGGTGGGAGAAGCGCACGGCCGGCGTGGTGGAGAAGATGCAGCAGC
GCCAGGACCGCGCGCGGCAGAACCTGCGCAGGAAGAAGCGCGCCCGCGCGAGCGCCGCTGCTCAGAGCCCCGA
AGAAGGGCCGCATCTGCCGCAGGACCTGGAGCGCGCAGGCCTGGTCT**AG**CTCTTTCCACCTGGGGCCCGCGTC
TTCCGTCCTAGGAGACTCCAGGACACCCCTCTGAGTCTTTGACGCTGGCTCTGTCCCAGGATCTCCACAGACCTCG
GCCTCTCCATGTGAGGGGGACACAGTGGTGTCTGTCTGAGTTGTGAGGGCCCAGATCACAGATCCCATGTGAGAA
AGAGAGAGTTTCAGCGTCATCCTTGAACGCAGGATCCGGGACCTTCAGACCCAGGGAAAAGGTGAGGGAGACTGG
GGCCTGGTCTGCTTTCCCGGGCCTGAAAGCTTCCCGAGGTTTGCAGGGTCAGGGAGGAGGAACGGTGGGGGTGG
GCAGTCACTGCCTGTTCCTTGCCTGTGTTTCGAGGAGCCACGGGACAGAAGACGGTGGCCTCTGCTGCCGGG
CCACGTTAGTCCGCAGCTCACCCGAACAGAGGACAAACCTGAGGTGTGGCATATGGGCACCTGGCACTGGGAGTC
GGGGGAGCACGTCCAGGCGTGGTGCATCCTGGGGCAGAACGCCATGGCTCCTCCCGCTCTCTTGGCTTCTGCCT
GTTGGGGTCTCATTCCTTTCTGTTCCCGAGTGCCCCGGGGCGGCATTTTACTGCTCAGAAATTTGGAGGGAGGGAG
CAGTACCTTCCCGGAGTCCACGCATGTGAGTTGGGTCAAGTGCATTGGACCTAGGGAAAGAGAAAAGAAATAA
AAGCTGGAGAGAGAGTGAAGTGAATGCAAGATACAAAGTGGGATGGAAGAATTAAATCCAGAGTTCCAGGCAATC
AAAATGAGTGCAGGTTGAAAGAAAACAGGTGAATTTTACTGGCATAIGGATGATAAAGCTGTAAATAAAATTTCTT
TTGATGAAACTCTCCGTTATGAGACAAAGACTGTAAGTGAACAGGAGCTGGTGTGACTGTTACCAGACAGAGGC
AACTGATGAAAAAGCCCTGTGAAAGATAGGATGTGAGGTGAGCATGAGCTTGAGCTGAGAGACAGACACAACAGT
ATCTGAAAAGAATACATACTCTTTCCATGCATATATGGAACATGGATGGAACTGACCACCTACTTTGTCCAGAA
AAGAAGTCTTAAGATATTTCAAGGAATCAGTGTGTTATCTGACCGTATCCCAATGTCATTAAAAAAATTTGAG
CTAAAAA

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FIGURE 1592

MASLLAKDAYLQSLAKKICSHSAPEQQARTRAGKTQGSETAGPPKKRKKKTQKKFRKREEKAAEHKAKSLGEKSP
AASGARRPEAAKEEAAWASSAGNPADGLATEPESVFALDVLRLHEKIQEARGQGSAKELSPAALKRRRRKQ
ERDRKKRKRKELRAKEKARKAEEATEAQEVVEATPEGACTEPREPPGLIFNKVEVSEDEFASKAQRREKRQVRK
GNLTPLTGRNYRQLLERLQARQSRLELRGQDEGKAQELEAKMKWTNLLYKAEGVKIRDDERLLQEALKRKEKRR
AQRQRWEKRTAGVVEKMQQRQDRRRQNLRKKAARAERRLLRARKKGRILPDLERAGLV

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FIGURE 1593

GGCACGAGGGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCG
GGGCGCTTCGAGCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCCTCGCGCA
CCCCGGCCCCGCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCTCGGGCCAGCGTGCGCAGGGGTCAGT
GGTTCTCTCGGGTCTCGGGACAGGTGAGCACCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGC
AGGAGATCGTGGGCGCCCTCCGCAAGGGCGGGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGA
GCAGGTTTGATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGG
AGTGTGCGAAAGAGCTCACAGCGCTCCTTCACCACTATTACCCAAATTGAGATCGACCCACACCGGACCGTCAAGG
AGAAGCTACCTCATATGGTGAATGGTGGACCAAGCGCACAAATCTCCTATGTCAGCAGAAGATTGAGAAGTTTC
AGATAGCCCAGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACC
ATAACAACATTCCCTTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAG
TGTTCCACCCCAACATCCACATCGTGTCTAACTACATGGATTTTAAATGAAGATGGTTTTCTCCAGGGATTAAAGG
GCCAGCTGATACACACATACAACAAGAACAGCTCTGTGTGTGAGAACTGTGGTTACTTCCAGCAACTTGAGGGCA
AAACCAATGTCATCCTGCTGGGAGACTCTATCGGGACCTCACCATGGCCGATGGGGTTCTGGTGTGCAGAAACA
TTCTCAAAATTGGCTTCTGAAATGACAAGGIGGAGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGC
TGGAGAAGGACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGA
TGCAAGGCCCCTGAAAGGCGCAGGCTCCAGCCCGGCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTG
CTCCCCCGTGAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCCTTCCGCGCCCCCTCCGTCTCCTT
TCCCTGAGCACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGA
ACCTTGACCACAGCATGTGCTGCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTAAACATGGG
AAGTTCAACAAATATAATGTGTGAAACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1594

MTLSRFAYNGKRCPSYNILDNSKIISEECRKELTALLHHYYPIDPHRTVKEKLPHMVEWWTKAHNLLCQQKI
QKFQIAQVVRESNAMLREGYKTFNTLYHNNIPLFIFSAGIGDILEEIIIRQMKVFHPNIHIVSNYMDFNEDGFLQ
GFKGQLIHTYNKNSSVCENCGYFQQLEGKINVILLGDSIGDLTMADGVPGVQNILKIGFLNDKVEERRERYMDSY
DIVLEKDETLDVVNGLLQHILCQGVQLEMQGP

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FIGURE 1595

CTCCGTCCTCAAAAAAGATGAAAATAAAATAAAATATATATTTACAGGCCTACAACTTTTGCCTCAGACTGTTCCC
CTTTTCTAAGGGTATTCAAGTTTTACCTTTTAAGCTTCATATCCTCAGTGCTTGTAAGATGATGAGCTTAGAGG
TACCAGGTCATTGCAGTTGTTTGCTTAAAGACTTATTGAAATGGTTACTGGCGTAAATACTTGGCCAACCTCAACT
TTATTGCCCCCTGATCTTTTCCATTTTTGTTTCCACCTTAACCTATAGCAGCTCCTCCAAATGAGGAATGCTGTAA
GTAAGACTCATCAACAGATTTTAACCATTTTATTATCCTGTGTGCTTACATTGCTTCTGTGAGATGTTTTTT
TCTTATCTGAGATGAACCTTCAGGAGCCTATTGAACTCCAGACTGGTGTTCTGGGGCAAAGAGCTATTAGCCAA
ACTGATTCTATGCAGGTGAAGGATGCACTAAAGTTCTCAGTTTAGTGAGAAGCTTTCTAGCTATTCCAATACAGA
GTTCTTTCTTATAGGGCTATTGATATTGACACCAAATGGAGTGGCTTCTCAGCCTCTTAATGTCTTAAGTAAGTG
CTTAATTTGGAATAGAGAAACCAGTATATTTTAAAAAAGAAAAATATTCTTTGTAGCAACTGTAAATTCTCCCA
TTATAACAGTGAACAGAGCTCCAGGTAATAACGCATAGGCATGTCAGGTTGCATCTGTATATTTGACTACATTAG
TATTAGTGACATCAGGTGGATATAAAAGAAAACCTTGGAAGAGAACTGCCTTAGCCATGATTTTCGTTAGTAGA
CCTATTTATGATTCAATTGCAATTTTCAGATAGGATGTGAACATGGAATTTTCATTGAAAATAGTTTAATTTTTTA
TATAAAAGGTTTTGTATATAATGTGTGTCAGTGACTATTTTCAAAATCATTTCATCAAGACACCTTTTTTCTAA
AATAGGCATTGCATACACATATGCACACGTATGTGCATGTGCCACACATTTTTTGTATAATGTTGGGTTTGATT
TAAAAGTGTGTCAAATGTTTTATTATCTGCATATAGCAGTGGTTGGCTTTTTTGAATTGAAATTTTTGCGCAT
TGATGCATTGAAATAAGGAAAATTTTATCTCTGAGCACTAACTTATTTTTGCATATTTCTGTAATATTGCAG
TCCCCAGATCCAGAACATGGGAAGTTAGGGAAAATGTGTGATTTTGTGTTTTGAATTACTGTCAGAATTACATAC
ACAATTACAACAACTTTTTTTAAAAGACATTTTCATTGTACTGCAAAAATCTGAATATTTATATTTCTTGTTTT
TTCTTTATATGTTTTGCATTTTAATATGTTGAGCCACTGGAAATTTGTAACAGATTAATTTGTTATAGGAGTTTA
AATGTGTTGTCTCATTGTCTCCATTGTCTTTGTCCAGAGCCTATTATTATGGAAACAATAAAATTTATTGTGTCAGT
TGCTTTGATTCTT

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FIGURE 1596

MCCHCLHCLCPEPIIMETIKFIVSVALI

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FIGURE 1597

TCTCCACGTGGGTACCGGCGCTCTCGGCGCCCGTAGCCACCCGCCCGCCGGAAGCCGACATCTCGAGTTCTGGCA
GAAGCAATTTGCGCGGCGAGGAGCGGAGCGGCAGGAACCAATAAGCTGCTTCGCCTCGGAGCTGAAGCCCGTAC
TCAAGATGGCGGCTCCGGGCGGGCGTGGCCAGTGACTAGAAGGCGAGGCGCCGCGGGACCATGGCGGCGGGCGG
GACGAGCGGAGTCCAGAGGACGGAGAAGACGAGGAAGAGGAGGAGCAGTTGGTTCTGGTGAATTATCAGGAATT
ATTGATTCAGACTTCCTCTCAAAATGTGAAAATAAATGCAAGGTTTTGGGCATTGACACTGAGAGGCCCATTTCTG
CAAGTGGACAGCTGTGTCTTTGCTGGGGAGTATGAAGACACTCTAGGGACCTGTGTTATATTTGAAGAAAATGTT
GAACATGCTGATACAGAAGGCAATAATAAACAGTGCTAAAAATATAAATGCCATACAATGAAGAAGCTCAGCATG
ACAAGAACTCTCCTGACAGAGAAGAAGGAAGGAGAAGAAAACATAGGTGGGGTGGAATGGCTGCAAATAAAGGAT
AATGATTTCTCCTATCGACCCAACATGATTTGTAACTTTCTACATGAAAATGAAGACGAAGAAGTGGTAGCTTCA
GCCCCAGATAAATCTTTGGAATTGGAAGAGGAAGAGATTCAAATGAACGACAGTTCAAACCTGAGTTGTGAACAG
GAGAAACCAATGCACCTTGGAATAGAAGATTCTGGTCCTCTTATTGATATACCTTCTGAGACAGAAGGTTCTGTT
TTTATGGAAACTCAAATGCTGCCTTAGAAATCACTCTCCTAGATGAAATGTTTCTCATAATAACTTGTCAAGAAC
TTTTTAGAGTTGTTACATAAAAATAATTGCTGCTGTAGCTTGTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1598

MAAAADERSPEDGEDEEEEEQLVLVELSGIIDSDFLSKCENKCKVLGIDTERPILQVDSCVFAGEYEDTLGTCVI
FEENVEHADTEGNNKTVLKVKCHTMKKLSMIRILLTEKKEGEENIGGVEWLQIKDNDFSYRPNMICNFLHENEDE
EVVASAPDKSLELEEEETQMNDSSNLSCEQEKPMHLEIEDSGPLIDIPSETEGSVFMETQMLP

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FIGURE 1599A

GCGAGCCTCTCTCGCGCACAAAGTTGTGGAGTCGTTTTCTCGGAGCAGGGAAGCGGGCAGCAGCAGCCGGCCG
CGGGCTTTCTCCCGCCGAGGGGCGAGGAGGAGCCTCTGGCTCCAGAAGCCGATTGGGGAATCACGGGGAGCGGCG
CCCCCTTTCTTTGGGTCAATTTCTGCAAACGGAACCTCTGTAGCGTTTGGCAAAGTTGGTGCTGCGCGCCCT
TCCAGGTTTGGCGTTTACTGTTTTGTTTTTGGCGGAACCTACCAGGCAGGAAGATTGCACAAGTAAGGGGCGTTT
TCAGTCGGGTGTCAANNNNNNNNNNNNNNNNNNNNNNNNNAAAGATTTTCGGTTCGTGTCTGCTTCTCCAAGCTTT
ATTTTTTTTTTAAATACATCGCACACCACAACTCACACTCGCACACACCCCCGCGTTACTCCGTGTCAAACCTC
CTAGAGGAGCCCTTGGCCAGCTCGGGGTGCGGCGGTGGCGACCGGCAGGCAGGAGGCCCGCGGCAGCAGGTAT
TGATGTCAAGCTGAACCATCGTAGGAAGTTGAAAGCCTTAGAAAGAGGACTTGGTAAAGTTTTTGGATTATCTTG
AAACTCTGGCAAATGCGCAAGTATGGAGAACATGAAGCCAGTCCTGACAATGGGCAGAACGAATTCAGTGATAT
CATTAACTCCAGATCTGATGAACACAATGACGTACAGAAGAAACCTTTACCAAATGGATAAATGCTCGATTTTC
AAAGAGTGGGAAACCACCCATCAATGATATGTTACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGA
AGGCCTCACAGGAACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGT
GCTGCAGGTTTTACATCAGAACAATGTGGAATTAGTGAATATAGGGGGAACCTGACATTGTGGATGGAATACAA
ACTGACTTTGGGGTTACTTTGGAGCATCATTTCGACTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGA
CCTGCAGCAGACGAACAGTGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACAGGCCCTACAGCCAAGTCAA
CGTCCTCAACTTCACCACAGCTGGACAGATGGACTCGCCTTTAATGCTGTCTCCACCGACATAAACCTGATCT
CTTCAGCTGGGATAAAGTTGTCAAATGTCACCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTTA
TTTGGGAATTGAAAGCTGTTAGATCCTGAAGATGTTGCCGTTTCAGCTTCCTGACAAGAAATCCATAATTATGTA
TTTAACATCTTTGTTTGGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAG
GAAATATAAAAAAGAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCCTGAGGAGGAGCATGAGAGTCC
CCGAGCTGAAACTCCAGCACTGTCAGTGGGTGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGT
GCTGACCTGGTTGCTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAA
AGACCAGTTTGAACCCATGAAGCTTTTATGATGGAAGTACTGTCACACCAGAGCAGTGTGGGCAGCGTCCCTGCA
GGCAGGCAACCAACTGATAACACAAGGAACCTCTGTCAGACGAAGAAGAATTTGAGATTGAGGAACAGATGACCCCT
GCTGAATGCTAGATGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGA
ACTGCAGAAGAAGCAACTGCAGCAGCTCTCCGCTGGTTAACACTCACAGAGGAGCGCATTGAGAAGATGGAAAC
TTGCCCCCTGGATGATGATGTAAATCTCTACAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGA
GGCTGAACAGGTGAAAGTAAATCACTAACTCACATGGTGGTCAATTGTTGATGAAAACAGTGGTGAGAGTGCTAC
AGCTATCCTAGAGACCAGTTACAGAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTG
GAATAGGTTACAAGAAATCAATATATTGTGGCAGGAATTATTGGAAGAAGTGGTGTGTTGAAAGCTTGGTTAAC
CGAAAAAGAAGAGGCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAACCTAAGTGTGAGTGTTCG
ACGTCTGGCTATTTTGAAGGAAGACATGGAAATGAAGCGTCAAACATTGGATCAGCTGAGTGAGATTGGCCAGGA
TGTGGGACAATTACTTGATAATTCCAAGGCATCTAAGAAGATCAACAGTGAAGTCAAGGAACTGACTCAAAGATG
GGATTCTTTGGTTGAGAGACTAGAAGATTCCTCCAACCAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCA
GATTCCTCAGAAGGACCTTTTGGAGACTGTTTCGTGTAAGAGAACAAGCAATTACAAAAAATCTAAGCAGGAACCT
GCCTCCTCCTCCTCCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAG
TGCAGAGCTGTTGAACTGGATTTTGAATGGAACCTGCCATTGAGCCACAGAGATAAAAGAGTATATGAAGAT
GCAAGACACTTCCGAAATGAAAAAGAAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGAAATCCCAGAGCAGA
TGAATTAACCAAACTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAGGCCTTCCTACTGAAGAAATAAAAAA
TGTCTGGAGAAGGTTTCATCAGAATGGAAGAATGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTGAGCT
ACAGGAAGATATAAATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAAGGTCATCAAGACAAAGGAGGAGTGGGT
AAAACACACTTCCATTTCTGAATCTTCCCGCAGTCCTTGCCAAGCTTGAAGGATTCCTGTGTCAGCGGGAATTGAC
AAATCTTCTTGGCCTTCACCCCAAATTTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGC
CCCAGATTTTGTCCAGCGGGGCTTCGATAGCTTTCTGGGCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCG
TCAACAACATCTAGAGAATGAACTGAAGGGCCAACCTGGACATGCATATCTGGAACATTGAAAACACTGAAAGA
TGTGCTAAATGATTGAGAAAATAAGGCCAGGTGCTCTGAATGTCCTTAATGATCTTGCCAAGGTGGAGAAGGC
CCTGCAAGAAAAAAGACCCCTTGATGAAATCCTTGAGAACTCAGAAACCTGCATTACATAAACTTGCAAGAAAC
AAAGGCTCTGGAGAAAAATGTTTCATCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAA

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FIGURE 1599B

GTGGAACAAGCTAAAGGTCTTGGTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTT
TGAGGCCGATTCAACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCCA
AGGAGACGACGCAGGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAACAATTGAATC
ATCTCTGAAAAACATGAAGGAAATAGAGACTAATCTTGAAGTGGTCCAGTTGCTGGAATAAAAACTTGGGTGCA
GACAAGACTAGGTGACTACCAAACCTCAACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTC
TGAAAGTCAAGAAAAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGA
AGAATATTTGGAGCGGGATTTTGAGTACAAGTACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGC
AAAAGAGGATGTGTTGCAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGTGCCAAGGT
GCCCTCTGGTGGCCAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAAT
TCGAGGAAAGTGCCACACGCTAGAGGAGGTCTGGTCTTGTGATTGAACTGCTTCACTATTGGATCTTGAAAC
TACCTGGTTAAACACTTTGGAAGAGCGGATGAAGAGCAGAGGTCTGCTGAGAAGACGGATGCTGTCAACGA
AGCCCTGGAGTCTCTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTCCGAGAGCTTGGCCAGAC
TCTGATTGATGGGGGATCCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATAGAGATCT
AAGTCACCTGGCAGAGAGCAAGCAGATTTCTTTGGAAAAGCAACTCCAGGTGCTGCGGGAAACTGACCAGATGCT
TCAAGTCTTGCAAGAGAGCTTGGGGGAGCTGGACAAACAGCTCACCATACCTGACTGACAGGATAGATGCTTT
CCAAGTTCCACAGGAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCCCTAGAGGAGTTGAGAAG
AAATATGCGTTCTCAGCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACA
GAGGAAACTCCGAGAGGTGTCCACAAAGTTCCAGCTTTTCCAGAAGCCAGCTAAGTTGAGCAGCGCATGCTGGA
CTGCAAGCGTGTGCTGGAATGGCGTGAAAGCAGAACTTCACGTTCTGGATGTGAAGGACGTAGACCCTGACGTCTAT
ACAGACGCACCTGGACAAGTGTATGAAACTGTATAAAACITTTAGAGTGAAGTCAAACCTGAAGTGGAACCTGTGAT
TAAACAGGAAGACATATTGTCCAGAAACAGCAAAACGGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCT
GAAGGTTCTTTACAATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAGAGCATCACAGTTGGC
CCGGAATAATGAAGAAAGAGGCTGCTTCTCTCTGAAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTC
CACTTCAGAAGGTCTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGAATA
GAGAAAAGCTGATTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAAACTTGATTGAGGGCAGTGAGCCTAT
TTTAGAAGAGAGGCTCTGCGTCTTAACGCTGGGTGGAGCCGAGTTTCGTACCTGGACTGAAGATTGGTGCAATAC
CTTGATGAACCATCAGAACCAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGC
TGAAGCTCTATTGGATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTTAGTATCTGA
GCTGGATGATGCCAACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTGATGAATGCCCGTGAAGCTC
AAGCAGGGAGCTTGTAGAACCAGTTAGCTGAGCTGAATAGGAACCTTTGAAAAGGTGTCTCAACATATCAAAAG
TGCCAAATTGCTAATTGCTCAGGAACCATTAACCAATGTTTGGTCACCACTGAAACATTTGAACTGGTGTGCC
TTTCTCTGACTTGGAAAAATTAGAAAATGACATAGAAAATATGTTAAAAATTTGTGGAAAAACACTTGGAAATCCAG
TGATGAAGATGAAAAGATGGATGAGGAGAGTGCCAGATTGAGGAAGTTCTACAAAGAGGAGAAGAAATGTTACA
TCAACCTATGGAAGATAATAAAAAAGAAAAGATCCGTTTGAATATTACTTTTGCATACTAGATACACAAAAAT
TAAGGCAATCCCTATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGA
TTATCTGGTTGAAATTAACAAAATTTTACTTTGCTATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAA
CACTGCTATTTACGAAGACTTCTCTTTTTCAGGAAGACTCTCTGAAGAATATCAAAGACCAACTGGACAAACTTGG
AGAGCAGATTGCAGTCATTATGAAAAACAGCCAGATGTATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGAT
CAGAGATACACTTACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTT
TGACAGGGCAATGGAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGATAACAGAGGCTGA
AGAATTACTGGTTGATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACT
TGAGGTGGGCATCAGCAGCCACCAGCCAGTTTTGCAGCACTAAACCGAACTGGGGATGGGATTGTGCAGAACT
CTCCAGGCAGATGGAAGCTTCTTGAAAGAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGA
AGTGAAGGATAGGCAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGAT
TATCTGTTGGTTAAACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGA
ATTAAGAGACTTAACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAAGTGAATTGGAGAT
GCTTTAGATAAAAGTCTGAGTTTACCTGAAAGGGATAAAATTTAGAAAAGCTTAAGGACTGTAATATGACATG
GAATAAGATTGTCAGAGAGGTGCCTACCACCTGAAGGAATGCATCCAGGAGCCAGTTCTGTTTACAGACAAG

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FIGURE 1599C

GATTGCTGCTCATCCTAATGTCCAAAAGGTGGTGCTAGTATCATCTGCGTCAGATATTCCTGTTTCAGTCTCATCG
TACTTCGGAAATTTCAATTCTGCTGATCTTGATAAACTATAACAGAAGTAGCCGACTGGCTGGTATTAATCGA
CCAGATGCTGAAGTCCAAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAT
TACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAA
AGCTTCCAGTTTCAGATATGAGAACAGCAATTACAGAAAAATTGGAAAGGGTCAAGAACCAGTGGGATGGCACCCA
GCATGGCGTTGAGCTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAGTGGGATGACCATAGGGA
GGAGACTGAAGAACTGATGAGAAAATATGAGGCTCGACTCTATATTCTTCAGCAAGCCCCGACGGGATCCACTCAC
CAAACAAATTTCTGATAACCAAATACTGCTTCAAGAACTGGGTCTGGAGATGGTATCGTCATGGCGTTTCGATAA
CGTCTCGCAGAACTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAA
AACATCATGGATCAATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGAGGCTGAGTGGAGGACGGTGCA
GGCCTCTCGCAGAGATCTGGAAAACCTTCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGA
TGCTCTCATCGGGAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACCTCAAACAGCAGATGCAGGACATCCA
GGCAGAAATGATGCCCACAATGACATATTTAAAGCATTGACGAAACAGGCAGAGATGGTAAAAGCTTTGGG
AAATTCTGAAGAGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGGAATGACTTAAAAGCAAA
ATCTGCTAGCATCAGGGCCCATTTGGAGGCCAGCGCTGAGAAGTGAACAGGTTGCTGATGTCCTTAGAAGAACT
GATCAAATGGCTGAATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACA
GCTCCAGTATGACCATTTGAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCTGAATGCTGTGCGA
CCAGGCCCGAGTTTTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAAAC
AGAATTAACCTCTGAGGAGAGAGCCCCAAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAGAAAA
ATGGGAAAGTCTAAATGCTGTAACTAGCAATTGGCAAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCT
GCAGGGAGCTATGGATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCCGTGGG
AGACTTACTCATTGACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTTAGAGAAGAAATTGCACCAATCAA
CTTTAAAGTTAAAACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCCCTCTTAAAGATGTC
TCGCCAGCTAGATGACCTTAATATGCGATGGAACCTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCA
GGAAGCCCACAGAGATTTTGGACCATCCTCTCAGCATTTTCTCTCTACGTGAGTCCAGCTGCCGTGGCAAAGATC
CATTTACATAATAAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCTAAAATGAC
CGAACTCTTTCAATCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCCTACCGTACAGCAATCAAAATCCGAAG
ACTACAAAAGCACTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAAGTTGAA
CCAAAATGACCAGCTCCTCAGTGTTCAGATGTATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAAAT
GCATAAGGACCTGGTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGG
TCGAAGTGGAAAAATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCAAAGGTCTCTTGGAAAGAAA
ATACAGATATCTCTTAAAGGAAGTTGCAGGGCCAACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCA
TGATGCCATCCAGATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCG
CAGCTGCTTCCAACAGAATAACAATAAACAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACC
ACAGTCCATGGTTTGGCTCCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAA
CATCTGTAAAGAATGTCCAATTGTGCGGTTTCAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAG
TTGTTTCTTTTTCGGGTGCAACAGCAAAAGGTACAAATTACATTACCCAAATGGTGGAATATTGTATACCTACAAC
ATCTGGGGAAGATGTACGAGACTTCACAAAGGTACTTAAAGAACAAGTTTCAGGTGCAAGAAGTACTTTGCCAAACA
CCCTCGACTTGGTTACCTGCCTGTCCAGACAGTTCCTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAG
TATGTGGCCAGAGCACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACA
ATATGCCACACGACTGGCCAGATGGAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAG
TGTGGAAGACGAGCAGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGCA
GAGCCCAGCTCAGATCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAAGTGGAGAGGATCATTGCTGACCTGGA
GGAAGAACAAGAAATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTGCGG
TTACCCGCCAGAGTCGATTATATCTCCCCATCACACGCTCTGAGGATTTCAGAACTTATAGCAGAAGCAAACTCCT
CAGGCAGCACAAAGGTGCGCTGGAGGCTAGGATGCAGATTTTAGAAGATCACAATAAACAGCTGGAGTCTCAGCT
CCACCGCCTCCGACAGCTGCTGGAGCAGCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCC
TCAGCATCTGCACTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCACACAGGCAGCGGGAGAGGA

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FIGURE 1599D

CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTACAGCACGTTTCCATC
TTGCTGCCCAAATGTTCCAGCAGGCCACAGGCAATGTGAAGTATTCATCCGGCCAACCAATGTTTCCTGACGTA
CAGTGTTGCCCTTTTCAGCAAATGCCAATTCCAAGTTCCATTAAATCAGAAGCTCCATGGCTCCTTGGCCCCACGA
TGTTGAGTGCTGACTGTGTGTTCTACTGAAAGAGTAAACACTGACTATCCAAAGAGAAATGGATATTTTGTTTT
TATAATAACCATATATTATTGTTTTCTTCTTCCCTTTCTATGCAAGTGTAATAATGAACAGAGAGGTATTGG
AAATGGTAATACATTTGTCACGGATTTGTATAATGTATACAGCATTGGGAAAGTGGGTGGGGGCTTTCTAATATG
ATACCGTCTTTTAATAACTATGACAAAGCTTACATAAGAATTAGAAGACCACTTTACATTTTTACATTCTTCT
GCTGTTTCATTTAACCTTGACAAATTACTTCATTTTTCTTTGACTCTTTTACCACAATGTTTTGGTTATTATATA
ATTTATCAGCCATATGTTTATCAGCCATATAACCAACTAGATCCCAAATAGATCCATGTATTTGTTTCCGTGATT
TGGCCACATTAATAAATTCATAAATTTCAATCAAAATATCTTATATATACACACATATGGTTTAAGCTACAGCCCT
GTGTATGCCGTTTAACTTTATTTGACGTTGCCACTTACTTCTTTGCTGACCACCTGGATAACCGTAATAAAAAAT
CCTATAAGCCTAAATGGCATTTCCTTTGGGATATTTTCCCTGCATTTTATTCCCTTTTTATATAAGTAGGAATTA
ATTATTTATTTTATGTCTTAATCTATTTGATAAAGAGACTACATTATAATAATCTCAAAGATCATATTACCAAA
GGTTGCCCACTTGAGCATATTTTCATTTTGACACAGAAACAAAATTTAGTACAACCTTTCCTAGTTCCCATGTCT
TGATTTTCATCATTACATGCACAGCAGACCTTTACCTATTGTGATACCAGAACACATCATTGTCTTTGGTTCCCT
TCAAAGAGAAATTTATTGTTGTTTTGTATTTTCAAGTCCTTAATAGTTCTTGAAACTCCTAGTTGTTTTCTTGTT
GAAAGCAGACACACATTTAGTGCACGGCTTATTTTACCTTTTCGGGTGAAAGATCAGATGTTTTTATACCCTTCAC
TTGATCAATATATTTGGAAAGAATGTTTATCAAAAGTCTATGTCACTGCTTCTACAGAAGAATGAAATTAATGCT
TAGGTGATGGTACCTCCACCTACATCTTTTTGAGTGCATTCAATTATGTATTTTGGTTTAGCTTCTGATTTAACA
TTTAATTGATTAGTTTAAACATGTTACTTAATTAGCAAATGTAGAGGAACCAAAAAAAGGTGAAAATAATATGT
TTTGATTCAAACCTAAAGACATAAAACATAAAGACATTTTAACTTTGGGTTCTCTTTAGCTGGGATCTGGCCAG
AAGGAGGCTTAAAGTTAGAAATTGCTATTATTTTAGAATAGGTTGGGTGGGTGGGGGGCAAGGGTGTCTATTTG
CAGCAGAGATATTTTGAAGAAGAAAAATGTTTTATATAAAAAGGAAAGCCATGACCACCTTTCTACCTCAGAT
CCATCTTCATCCATTGCATTGAAACTGCTTTATGCTGCTGCAGTCTGCAAAGTCTAGAGCTTTTATCAGGCCAT
GTCATACCCAAGAAAGCACCTATTTAAAGAAAAACAATCCCTGAGCTCTCAACTCCAAGTTGTAGATTTGGTG
TCTTCCTTGTTCTTACTTTAAAAAGTCATGTGTTAATTTTTTTCTGCCTGTATTTGTATGCAAAATGTCCTCTA
TCTGCTATTAAGAAAAAGCTACGTAAACACTACATTGTAACCTTCTAAGTAATAATAAATAAAAAAGAAATATAT
TGCAGTAACAATGGGAAGTAAGTATGTAGTTCTTTTGAATATGTGGTAAAGAACTAATCACAGACTATCATCTA
ATCTGGTTACATATTGTATTTTTCATCCTGAATAAAAGTAATTTTAACTAAAAAAATCTATGTCGGGTGCGG
AGAAAGAGGTAATGAAATGGCAGGAATTCAGATATCAGCTTATCATACC

REPLACEMENT SHEET

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FIGURE 1600

MAKYGEHEASPDNGQNEFSDI IKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQT
NSEKILLSWVRQTTRPYSQVNVNFTTSWTDGLAFNAVLHRHKPDLSWDKVVKMSPIERLEHAFSKAQTYLGIE
KLLDPEDVAVQLPDKKSIIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQSTAPEEEHESPAET
PSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRHLHDVLMELQKKQLQQLSAWLTLTTEIRIQKMETCPLD
DDVKSLLQKLEEHKSLQSDLEAEQVKVNSLTHMVVIDENSSESATAILEDQLQKLGERWTAVCRWTEERWNRLO
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRLAILEKEDMEMKRQTLDQLSEIGQDVGQL
LDNSKASKKINSSEELTQRWDSLVRLEDSSNQVTQAVAKLMSQIPQKDLLETVRVREQAITKKSKQELPPPP
PPKKRQIHVDIEAKKKFDAISAE LLNWLKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQREIRIPRADELNQ
TGQILVEQMKGELPTTEEIKNVLEKVSSEWKNVSOHLEDLERKIQLOEDINAYFKQDLELEKVIKTEKEEWVKHTS
ISESSRQSLPSLKDSCQRELNTLLGLHPKIEMARASCSALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQOHL
ENELKGQPGHAYLETCLKTKDVLNDSENKAQVSLNVLNDLAKVEKALQEKKTLDILENQKPALHKLAEETKALE
KNVHPDVEKLYKQEFDDVQGWKVKLVLSKDLHLLEEIALTLRAFEADSTVIEKWMGDGVKDFLMKQQAAGDDA
GLQRQLDQCSAFVNEIETIESSLNKMKIEIETNLRSGPVAGIKTWVQTRLGDYQTOLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAE EYLERDFEYKSPEELES AVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSSG
QELTSLNPVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLTLEERMKSTEVLPKTDVNEALES
LESVLRHLDNRQTIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRQDQMLQVLO
ESLGE LDKQLTYLTDRIDAFQVPEAQKIQAEISAHETLEELRRNMRSQPLTSPESTRARGGSQMDVLQKRLR
EVSTKFQLFQKPFANFEQRM LDCRVLDDGVKAE LHVLDVKDVPDVIQTHLDKCMKLYKTLSEVKELEVE TVIKTGR
HIVQKQQTNDNPKGMD EQLTSLKVLVNDLGAQVTEGKQDLERASQLARKMKKEAASLEWLSATETELVQKSTSEG
LLGDLDT EISWAKNVLDLEKRRKADLNTITESSAALQNLI EGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
VEPKLAELNRNFEKVSQHISAKLLIAQEPLYQCLVTTTETFTGVPPSDLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIP IQQRKMQLASGIRSSLLPTDYLVE
INKILLCMDDVELSLNVPENLTAIYEDFSFQEDSLKNIKDQDLKGEQIAVIHEKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYSDRKGCFDRAMEEWRQFHCDLNDLTQWITEAEELLVDTCAPGGS LDLEKARIHQEQLEVG I
SSHQPSFAALNRTGDGIVQKLSQADGSFLKEKLAGLNQRWDAIVA EVKDRQPRLKGESKQVMKYRHQLDEIICWL
TKAEHAMQKRSTTELGENLQELRDLTQEME VHAELKWLNRTELEMLSDKSLSLPERDKISESLRTVNMTWNKIC
REVPTTLKECIEQPSSVSQTRIAHPNVQKVVLVSSASDIPVQSHRTSEISIPADLDKTITELADWLVLIDQMLK
SNIVTVG DVEEINKTVSRMKITKADLEQRHPQLDYVFTLAQN LKNKASSSDMRTAITEKLERVKNQWDGTQHGVE
LRQQQLEDMIIDSLQWDDHREETEELMRKYEARLYILQQAARDPLTKQISDNQILLQELGPGDGIVMAFDNVLQK
LLEEYGSDDTRNVKETTEYLKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQEAETTNNVLVDASHR
ENALQDSILARELKQMQMDIQAEIDAHDNIFKSIDGNRQKMVKALGNSEEATMLQHRLDDMNQRWNDLAKASASI
RAHLEASA EKWNRLMSLEELIKWLNMKDEELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAVDQARV
FLADQPIEAPEEPRRLQSKTELTPERAQKIAKAMRKQSSEVKEKWSLNAVTSNWQKQVDKALEKLRDLQ GAM
DDLADAMKEAESVRNGWKPVGDL LIDSLQDHIEKIMAFREEIAPINFVKVTVNDLSSQLSPLDLHPSLKMSRQLD
DLNMRWKL LQVSVDDRKLQLEAHRDFGPSSQHFLSTSVQLPWQRSISHNKVPYYINHQTQTTCDWHPKMTL FQ
SLADLNNVRFSAYRTAIKIRRLQKALCLDLLELSTTNEIFKQHKLNQNDQLLSVPDVINCLTTTTYDGLEQM HKDL
VNVPLCVDMLCNWLLNVYDTGR TGKIRVQSLKIGLSLSKGLLEEKYRYLFKEVAGPTMCDQRQLGLLLHDAIQ
IPRQLGEVAAFGGSNIEPSVRSCFQQNNNKPEISVKEFIDWMHLEPQSMVWLPVLHRVAAAETAKHQAKCNICKE
CPIVGFYRYS LKHFNVDVCQSCFFSGRTAKGHKLHYPMVEYCIPTTSGEDVRDFTKVLKNKFRSKKYFAKHPRLG
YLPVQTVLEGDNLETPITLISMWPEHYDPSQSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTTG SVEDE
HALIQOYCQTLGGESPVSQPQSPAQILKSVEREERGELERIIADLEEEQRNLQVEYEQ LKQHLRRLG LVPVGSPE
SII SPHHTSEDS ELIAEAKLLRQHKGRL EARMQI LEDHNKQLESQ LHLRLQLLEQPESDSRINGVSPWAS PQHSA
LSYSLDPDASGPQFHQAAGEDLLAPPHDTSTD LTEVMEQIHSTFPSCCPNVPSRPQAM

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FIGURE 1601A

CGCCCGCCCCCTCCCCGCGCCGCGCCACGGGAGGCGGTGATCGGGGCGGGGCGGCTCGGCTGCGCCGAGAG
CGGAGACACAGGCTCAAGATGGCAGATTCCGACTGAGGCTGGGGGGGCGAGCTCGCGCGCCGCTTTCCCGTCCC
CGTTGCCATGAACCGCGGACACCCCGCCCCGATGCCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTT
TCTCCCCTCACACCTTCAATCAAGTGCCTTCTGTAGTGTGAAGAACTGAAAATAGAGCCGAGTTCCAAGTGGG
ACATGACTGGGTACGGCTCCCACAGCAAAGTGTATAGCCAGAGCAAGAACATCCCCCTGTGCGAGCCAGCCACCA
CAACCGTCAGCACCTCCTTGCCGGTCCCAAACCAAGCCTACCTTACGAGCAGACCATCGTCTTCCCAGGAAGCA
CCGGGCACATCGTGGTCACCTCAGCAAGCAGCACTTCTGTACCCGGCAAGTCCTCGGGCGGACCACACAACCTAA
TGCGTCGAAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATCGAGA
ACACAAGCAGCGTGCAGATCATCGAGGAGCATCCACCCATGATTGAGAATAATGCAAGCGGGGCCACTGTGCGCA
CTGCCACCAGTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTATCAGCTGGTGCAGCATG
AGGTGCTGTGCTCCATGACCAACCTACGAGGTCTTAGAGTTCTTGGGCCGAGGGACGTTTGGGCAAGTGGTCA
AGTGCTGGAACCGGGGCACCAATGAGATCGTAGCCATCAAGATCCTGAAGAACCACCCATCCTATGCCCGACAAG
GTCAGATTGAAGTGAAGCATCCTGCGCCGTTGAGCACGGAGAGTGGCGATGACTATAACTTCGTCCGGGCTACG
AATGCTTCCAGCACAAGAACCACAGTGTCTTGGTCTTCGAGATGTTGGAGCAGAACCTCTATGACTTTCTGAAGC
AAAACAAGTTTAGCCCCCTTGCCCCCTCAAATACATTGCCCCAGTTCTCCAGCAGGTAGCCACAGCCCTGATGAAAC
TCAAAGCCTAGGTCTTATCCACGCTGACCTCAAACCAGAAAACATCATGCTGGTGGATCCATCTAGACAACCAT
ACAGAGTCAAGGTCAATCGACTTTGGTTCAGCCAGCCAGCTCTCCAAGGCTGTGTGCTCCACCTACTTGCAGTCCA
GATATTACAGGGCCCCCTGAGATCATCCTTGGTTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTG
TTATTGCAGAATTGTTCTGGGTTGGCCGTTATATCCAGGAGCTTCCGGAGTATGATCAGATTCCGTATATTTTAC
AAACACAGGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAAGTAGGTTTTTCAACCGTGACACGG
ACTCACCATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAGAAG
CAAGAAAGTACATTTTCAACTGTTTATAGATGATATGGCCAGGTGAACATGACGACAGATTGGAAGGGAGCGACA
TGTTGGTAGAAAAGGCTGACCGGCGGGAGTTTATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGA
GAATCACTCCAATCGAAACCTGAACCATCCCTTTGTCAACCATGACACACTTACTCGATTTTCCCCACAGCACAC
ACGTCAAATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCA
AAACCCCTTTTATCAGCAGCTGGCCCCCAGCAGCTCCACCAACCTGACCATGACCTTTAAACAACAGCTGACCA
CTGTCCACAACCAGCCCTCAGCGGCATCCATGGCTGCAGTGGCCAGCGGAGCATGCCCTGCAGACAGGAACAG
CCCAGATTTGTGCCCCGCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGCAGG
CCTCTCCCTCTAAGCAGCTGGCTACTCGGTGCGAATGGAAAATGCAGTTCCTATCGTCACTCAAGCCCCAGGAG
CTCAGCCTCTTCAATCCAACAGGTCTGCTTGGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTC
CCCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCA
TGGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGC
AGCCTGCACTATTGACCGGTATGTGACCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGCCCCACGTGATGC
GGCAGCAGCCAACCAGCACCTCCTCCCGGAAGAGTAAGCAGCACCAGTCATCTGTGAGAAATGTCTCCACCT
GTGAGGTGTCTCTCTCAGGCCATCAGTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCT
GTGCCATGGTGCACAGTAGCCCGGCTGCAGCACCTCGGTACCTGTGGGTGGGGCGACGTGGCTCCAGCACCA
CCCGGGAACGGCAGCGGCAGACAATTGTCATTTCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCA
GTGACACGGACGAGGAGGAGGAACAGAAACAGCCCCCACCAGCACTGTCTCCAAGCAAAGAAAAAACGTATCA
GCTGTGTACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGCAGCAGCGTG
CTGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACCA
TCATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGGCAGTCAACACCA
GTCACCACTCGTCTCTTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAAGGAGCT
CATCTGGAGCCATCACCTACCGGCAGCAGCGCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCC
AGGCTCAGCAGCACATCACCACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCTACATCACTCCACCATGG
CCCAGGCTCCGTACTCCTTCCCGCACAACAGCCCCAGCCACGGCACTGTGCACCCGCACTGTGGTGCAGCCGCTG
CCGCTGCCACCTCCCCACCCAGCCCCACCTTACACCTACACTGCGCCGGCGGCCCTGGGCTCCACCGGCACCG
TGGCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCC
ACCAGGTCCCCGTGAGCATGGGCCCCCGGTCTGCCCTCGCCCAACCATCCACCGAGTCAGTATCCAGCCCAAT

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FIGURE 1601B

TTGCCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGG
TCAACCAGTACCCTTACATATTAAAACACTGGAGGGGAGGGTGGGAGGGAGGGAGGGAGAGAATGGCCCGAGGGAGG
AGGGAGAGAAGGAGGGAGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAA
TGCAAACGGGGCAGGTGCGGGGGGGGGGGGGCAGAGGGCAGGGGGACGGGGTCGGGACACCAGTGAAACTTGAA
CCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTTAAAAGGAAGGGATTAAAGAGGGTGGGAAATCTA
TGGTTTTTTATTTAAAAAAGGAAAAAGGAAAAAAAAAAGGTCAATAACAAAAACCCAGCTCAAGAACCCATTCT
ACGCCAAACTGGAAAGGAGAAGAGAGCAACAGGAAGATTCCAGAAACGGGGGGCCCCAGTTTTTTGAAGAACTTTA
TGAACTTTTCAAAGATTATTTTCATATGGCAGCAAGTGATACGGAAGACTGCTGTGACGGGACACCTGATATGGAA
ATCAAATAGATTTTTTAATTAATTGAACATAAGATTAGGGATTTTTCCAGAACTCGAAAGGGTCAACAGCCCTCC
AGAATGTGCGGCTGCAGCCTGAGGAGGCTGATGTTTGGAGCTGGTGTGGGATTGGCGAAGCCCAGTCCGGGCTCC
CTAGTCAGGAAAGACGGGGACGCGCCAGGCTGCTGGAAGCCCCCGGGGGCGCGGGCGAGTTTTCTTTTTCTGA
GCACTCTGGATAAATCCCTAAGCAACGTTGTTTCTCAAATGTCATTAATAATGTGTGTTGCAAACCTTTAGGTTTT
TTTCTTTTTCTGAAAATGTATTTTCTCTTTGAATCCACCCCTAGTCGCGTAGCGTAGGGCTAGCGGTGCTCACAGA
CACCCCTAGTAGAATGTAGCACTCAGCACCCCTTGTCTCCTACCTTGTGTTCAACTCCAATGATACCAATAGAATAT
TCCTCAATGTAATTGCACAAAAAAGCGATATAACATAGGCATGTAACCAATGTGGCGGTGCAGGTGTGCGGGT
GAGCGAGCACGTGTGGGTGTGCACGCGCGCCCTCCCCGCGTGGCCCTCGGCGCGGCCACCCCTAGCTGGCGCAGT
CTTGACACTGCATCCTTCCCTCCTAGTGCCTTACCGAGCGACAGACGCGGCGTGAGGGTTTACTTCCACTGGTAC
TCCAAGAACTGAGGCTAGTCAGACACAATCTCAGCTCTTCTGTTGTGCTGTTGTAAACAGTTTACGCTGGCCTTT
TTTTTTCTTTTTCTTTTTCTTTTTTAAATGTTAATGCCGTTGTCTTTCCTGGGCTGTTTGTAGCGGAAGGAT
GCCAGGGAAGCCAGCAGGAGCTAGGAGAGAGTCCGTGGATCTCGAAAGAAATATGGGAGACAGATGCCCGCGGG
TGCGTCTGGAGATGGGGACGGCGGGAGTTGAGTTGTGGCAGTAGTTGAGTTGTAATTTGTTGGCGGAGGCCCAGA
GAGACTCCCCACCCCTTACCCCTGCCCACTCTGTCCCCAGTTCGCGCATTTGTGAGGCCAGAGGTTTCCGACT
GTTGGCCTCGCCAGGCAGCCGTCTCCCGCCCCAGGCGGCATCCCCAGTCCCTCCCGCTCCACGAGAGCCTGGA
GCTCTCAGCCTCGCCCGGGGCTCCACTCTCTCCTCCGGCTCCCTGGGCTGTTTTGCTCTAACGATCTTGCCAGAT
CCCTCCCTCTGTAGACAACCACCAACCTCTGTTTGTCTGTTGAATTCTCTCCTCACATTACCCAGGTCTGCTCAAG
ACATGATTTTGGTTTTGGTTTTCTGAGGGTTCTAGTGGGCAGAAGGTTGGAGGGACACTTATGAGGGTGGCCGGGG
GTCTGACGCTGCACCTTTGAAAACTCACACAGTTGAATTTCCAAAGAAATCTGCCCTTTGCCCTCTTTGCACCT
TTGATACATTCTGGAAGTTTTCTCAGGCTTTGGACACTTCTGGGGATGGAGGTGTGGAGAAGTGGGGAGTTCCCT
CTCTTCATAGTAAATACTCTGAAATATGTAATGTGAATGGCAGGAGAACTTGCCCAAGGATGGGGCCGAAAG
GGTGGTTCTAATTGTTTGTCTGTAAGTTGAGTCTTTAGCTGACCCACAGGCAGGTTTCCAAGGTGCAAAGAGA
TCTTTCCGAGTCAGCGGCCCATCCTCATCTCCTCCCTTTACTTCTCACTGTGCAGTCTCCCTCAAGGATC
TACTGTGAAAGGTGTGTTGTAGTGATATCAACCTAAGTACGTAACGAAGTCGTTACTTACTCTTAGCTGTGA
AATAACTCTGAAACTTCCCCACCCCAACCATAAATTCTTACTTATAAAGAAACAGGTCCCCAACTGGAACAG
CTTAGTCCAGGCCTCAGCGAGAAGGAAGGACACCATGACTGCTCCATGCTGGGCACAGCCGGGCAGTCTTGCCAA
GTGCTGCTGGAGGCTGTGCCGGAAGAGGCTGCAGCAAGGAGATTCCCTTCCCTCGGGCCATTATCAATACTG
TCTTTATCTGGAGGTGGGGAAGCGCAGCCCTCTGAGACAGCAGGACAATGGTCAGTTTCAAGAGGGTGGAGGCGAG
CAAACGCTTCAGAGGACACAGAAGCCAGAGGACCCCCCCCCCGCCACAGCTGGGTGAGCCTGGAATAATCCATCT
ATTAGGGACTTTTTGGCAGCCAGATGGCAGCAATAGCCATTAGGTCTCATCCGAGTTCCAAGTCTTGGCTGCA
AATGAGCCTCAGTTCCCTTACTGGAGAGCACCCCAAGATTCTGGGCACAGTTCAATTTCCAGCCCTTTCTAGAT
CTGATCTTTTAGGGGGAAGACAGCTTAAATGTTCTTTTTCAATTTAAAGAAATATTCTGTCTGCTTAAGTTG
GAGGCTACTTACTCTTTACCTGACATTTTCTTCTTTTATCTTCCAGATCAGGAATGAAATTTCCATGCTGC
TCATAAAGATAATATTATTGTACTAATTATTTTATTACCATGTAATTATGATCATTATGTTGATATTTTAGTC
AGGGTTTTTAAATGCACATTTATCCAAGTATCTTTGTGTTTTCTCTTTAATATTTAAACTTATTCTCTGTGAG
TATATAAGTAGACTGGAGGGACATCCAGATGTCCAGTTTTGTGAGGCCAAAAAAGGAAAGACTTAGGAAGT
AGGAAAATTGTTCTGTCTATCTATCCCAACAAGAGACGTCAAGAAAGATCCACCACAGAACAAAAGTTTAAAG
AAGAATCAAAGCCTTGATTGGGCTCTGACAACATGGTCACCATCAAGGTTGTCAATTTCTAGATCCAGAGGCC
TGGGATGCGACGTGAGGTGGCATCTCATGGGCTCGGGGAATGTGAGTCACTGACTGTCCAGCCCTTAGCCAGCT
TCTCTCCACATCCTCAGAGCTCTCTGTGCTTCTGAAATCTGTTAACTAAATCTTTGGCTTGCTCTGGTATTT

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FIGURE 1601C

AAGCAAGAAAAATTCCTCGCAGAGGTGACCCCATCCGCTTCCCCACAATCCATCCTTTTGCCATCGGCGCACCTG
GGGCGTGGCTTAGGTTCTTCAATGCAGGGACATTTGCCCCCTCCCAGAAGCTGCTGGGCACAGTGAGGTGGCGTA
AGAGTGACTGGCAGGTGGTACCTTCCCCAGGAAATTTACCACACCACCCAGTTCTCAGCCTGCCCCCTCCCCC
TGTGATGCATGCCCCCAGCACCCAATTCTAGCCAGCTGGAAGTGGGTGGAGGGACAGCAGGAGGCCAGAGAAACC
CTGAACAAAGCTGGGCGGTGCTCAGGCATCACAGGCTGCACCCCTCTGAAAGCATCCCCACTGGGCTCCGGCC
ACATCTTCAGTGCACTGTGCTGTGTGCGCTGGGTGCTCACACGCTGTCCCCAGACCCACAAAGTGCTAGGCCCCA
GTTGAAGAAAGGGGTGAAATAGCCAGCTTCACCGAAGGGAAGGAAGGAAGTATTGGGCGATGCCAGCCCCACA
GACGCTCAGCAAACATTAGTGACATTCTCCTAGTCCTCACCCAATGGCCTCCTTACCCCCATGCATGGAGCTG
CCACATCAGAAGCCCCAAGAGAAGCTCCCTGCAGGAGAGGCCAGCTCCCTGGATGCCCAATTGCATACCTGGCCG
AATCTGCCATTGAGTCACCTTAGCAAATAGGCTGCTGTCACTAGGACCAAGCTCTCAAGCAGAGGGGATGCCAACC
TAGTCCTTACTTAGCCACGAATCATCTAGAGCATCCTCTAGTCTTTTGTGGGCTCCCTCCTTCCCAATTGAAGA
GACATTGTTTCAGAGGAAGAGGGGAAGATTTGAAATGTCAGGTCACGGAGGAGTGTTAAGTGGAGCCTGGTGAAC
CGCAGGGCAATTTGCTTCTGCTCACTGGGTCTGACTGGCCCTCTGGACGTGGGCCCCCATGTCTCTGTGCTTA
GGGCTCTTCATGATGTTTTGGATGTTTTCAAGGGAAGTGGGTGAGCAGATCAAGGGGTGGGAGAGTCGAGGCTT
GATTCCAGTTAATACTGTGAAGTGGAGCGTGCCTGTCAGTGGAAATTCAGAGGAAAAAGAGGGTGGAGCAAAGCG
GCATTCATCTCCTGGACTGTTAGCCTTTCTAGTCTTCTGCTGCTGAGGTGTTACGGGCTGGGGAGCCAGCT
GACCTTTGTCCTCTTCAACCTAGAAGACTCAGCCCGCCAGACACCAACGTGTGAGACGGATGGACATCAGGAAG
GGAAGGGGAGATTAGCCCCAAGTGTGACAGAACGATTTCCCTTGGTTGGACCTTGGGAATGGCAAACACTCATAT
TGGAACAAGCTTGGGGTGGAGATTTAGGCCGTGTGAGCGTGTGTGAGTGAGTGAACAAACTTTCTTGAAACT
GGAGGGAGGAGATGAGGAGCTTCGGGAAGTATTACTGATGGCTCATGGTTGAGAGAGCGACGTGGGGAGCCAGC
TCGCCCCAGCTTTTGTCCAGGTTCTCTTTGTCTGATGCTGAGGGCAGGGTGGGGTGTGGGACCACCACTCTTGT
TGGCCTGTCAAGTAGACCCTAGGACAGAAATGGAAGAAGGAAATGGCTCGGTGCTCTCAACTAGCAGAGAGAA
TTGAGGAGAGGTAAGGGTTCTTCTGCAGGCCAGCCTGGGACTCCACAGCGCCAGCAGGAGTGACTTGGCCACAA
GACATTCCAGCCCCAGGGACTTTGCAGGCTTCATTCCCTGTCTGTGCTTTTTCTTCTGCTGTTTTACAGACT
TCTGATGGGGAAGCTTCAAACTTGAGCAGGCCAGAGATGTCTTACCAAATTGGAAGGAAGGTGAAACTGTTCC
TTTCTTTAGCCAAAGAACCCTTCTCAAAGACGCTCCAGAAATGGACAAATGGCCTTCCCTTCGTTCTTTTCCA
GGCAATAATGACATCATTAGTGATGCAATTCTATTGTCTTTCTCTTCTCTGTCCNNNNNNNNNNNNNNNN
NNNTGCATTTATTTCAAACTGTGCTATTCTTTTAAGAGGAGTGGAGGTGACCCCTTCGATGCTGCTGCTATCGG
GAGACAAGGTGCCATACCAATACGTGGGCTTGACTAATCCCAGGCCACCATGGGAGAGAGCAAAGCAGGGCTGCC
AGGAGTTCAAGTGCATCAAGGGCGTAGAGCACGGGGGGCTGGGCTCGGAATAGCAGTACTTTTCCACTTTGATG
CCTTAGAACTCTCACTTCTCATCTCCACAGACCAGACTCAGTAAAATCTCAGGCCACTAGAGAATGGAAGGCGGT
GAAACAGGATTTAAATGCAAAAAAACCTATTGGAGGCTTTTGGCACCCTGGGCTCACTAGAGGGAGCCAGCATAG
TAGAGGTTTCTTGTGTCAGCTTCTGAAAAGTTCAAAAAAGAACTCCAGGCCGTTCTTCCCTCAAACCCAGTGA
GAGTTTGAGAGAAGTGCCCCCTGCAGGGCTCCCGTCCCAGAACACCAGCACCAGAGAGGGTCTTCCCGATGCCC
CCCGCTGGACTTGCCCAAGCCTCTGGGAGCCCCCTCATCTCAGATCCCTGTGTTGAACATGACACTGACTGTCCCT
TATTTGTTAAAAATTTGCAATATCTCTCAAGTAAATAATAGCCAACATTTGTTGAATGCTTTTATGACTCCCGGGC
TAAGGCCTTTATGAGCGTTGTCTCAAGGGGCCCAACAGCCATCCACAGGGAGGGGGATAACAGCCCCCATTTA
TAGATAAGGGAGCTGACCGGATGCTCTGAGAAGTGGCAGGTGTTGAAGGAAGGATAAAGCAGTGATGGGCCAGAA
TCCCCAAGGTTCCCTTTTTTGTTCATCAGGCCCTTCTGAGATGTGATTTTTAATCTTTTAACTTTTTTTAATTA
ATAGCAATGCGTGGCCTCATATTTCTATGAACCATTTAGTGATACTCCCGCTTCTGATGCCACACACTGTGCT
GGGAATTGCTCATGGGTTGTCTGTTTCTCTCCGTAGCCCTGTGAGATCGGCAATATTAGTCCCCCTACAG
CCAAGGAACTGCCAGAGCCACACAACCTTTGAGGGGCGAGGAGGGCTTGAACCTGAGTCTGCCAGCTCCAGA
ACTGAGCTTGAGCCATTAGCCACAGCTGTCTCCTGCATGTCTGAGCAAAGAAAGGCCTTTACACAGCATACCC
TGTGCCATCCCATGCACCGTGGGACTCAGCTAAAGGACTGTGCAAAGAGGGGGCTCCTGAGTTGGATTTAGGCAA
AAGGGGCAGAATTCGTTTGATTTTTAGAGAAAATCTCTGGAGAGTTCTTTTGATTATAGAAATTCCTTTTAGAT
TTCTTTCCAGCATACCAACTAGCTTTAGTAGTGCTGTACAACCAGCTCTTATAAGTAAGAGTGAAAAAGTATTC
TTTTCTTCTTTAAAAAATAAGTTTTCTTGCTTATAGTTAATCTAGAAAGGCAATACTAAAGGTATATATTTTT
TTCAAAATGCTATTTTTTACTGCACTTGATAATTATCCTGACAGCTCTGATCTCTGTAATAGATTCACTCTTCAG

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FIGURE 1601D

CTCTGGGCAGAACCCAGAGGCAGGGTTCACACCAAATTTGTAAATACCATATGTGGGTCTGGTGTCCAGGAACTTT
TTTCTTTCTGTTAAAAAAGAACAAAAAAGAACAAAAAAGAGTAGAGGTGGAAGAAAGACAAGACTTAG
AGGAACAAAAGAAATGTTTTCTTTGAGATACTCTCTCAAAGAAATAGCAACAATTGTATAAACAGGAAAACCAG
CCAGCTTTTCATGATAAAAGGAAGGCGTGTCTCTGCCCTGGTATGAGATTAAACAGAAATACAGATGCATTTTTAT
TTTGATTGAAAGATGGTGAGAATGTAGAAATGCTTAGGACTAGATTTTTAATTTTTTAAAAATAACTATTATCATT
TATTATGAAATATTTGTTTCAGTTGTTTTGAGTGGGTTTCTTGTCCTTTTTTCATTAAAACTTCTTTGTTGAC
TGCTCCAGGCTTGTTCCTAAATCTTAGGTAGTTTACACAAGTCTAGAATCTTTAGAACTTTAACTCCAT
TGGAAGCAAACCTAACTAATCGGAGTTTGAGATCCTGGTTGGTTCAATAGGTATTCTGGAATTCTGGCAGAACA
CCTAAAGATTTTTTTTTTTTGAAGGTTTTAGATACATTATCTTACACAACTGTGACCTAATGGCAATAATT
ACCTCAAATGTGGGCATTTCCTGGTTTTAGCCTTTTTTGAAATCATGTAGCCAGCTTGATCTTGAATTTAAA
GACTATGAATCTCTGTGGGCTGAAAATAATGATTACTTCATACCCCGGTCATCGTTGCTTAAGTGAATCTGTA
AAATAGCTCATCTTTACAACAAAAATTAAACCAAGGAAGAGATTATCTTTGTGTGTGTACTCAAATGCGATGT
TCAAATGCACATGTTAAGTATATATGTTTTTAGTACTGTAAATGCTGTAGCCTTCTAAGCTATCAAAACAGT
CACATTTTAAATGAGTAACTAAACAATTGACTGTGGATACTTAAGCATATTTCTGGCTACGTTTTATAGTTAAA
GTGTTTTATAGTTTACATTTAGACTGGTACTTTTTAAAGAAAAGTTCTGTTTATACTGACATCCGCAACCCCA
GTGAATGCCCTCTTAGTTGAGGTTGTGTCTCCCAAGGCAAGTGTGTGTCTCCAGACTCTTCTGTAGTCCAGCA
TGCGCACTTCCCTCTGGATTATTACTTTCCACGTGAAGTCAAGAGAACATGAAAGGCAATCCAGATGGAGGGAAA
AGGTGTGAGTCCGACAGCCCGGGCCAGATGCGAAGGTCTCATGCGTGTCTGCTTAAACACTTGTCTTCAAGCCCTTC
TCTCTGACATCTTGAAGAGTCATTGAGAACAGATAACCTGGTTCAATGATTTTTGTCTTGATTGAATTTTAA
CTTATTAATAGATCCACTGATTTCCAGGCACCCAGGAGTAGAAGAGACTGGGATTCAGGTGACCATGAGGCACA
GCTGCTACTTCTGGCCGGGGGTGATATTTTGATCAGCGTTTTGTAGGGGAGGACCATATACCCCTATTTCCCATG
GTGCGTGGCTGGGTTTTCCATATATCTGCTGTCTTTATTCTGTTTTCCCTTAAAGCAAAATCAATGTAAAGG
CTATGTTTACGTTTTACTCATTGTCCAGCTTAGACTCAAAGTCTAGTTCGGTGGGAGGGGACCTTAGCATCCTC
TCAGAGATGGTCAGGGCTGAGCAGGAGGAGGCAGAGACAGAGGGGCAGCTCAGCCTGGTCCATTGAGACCCACTC
TAAACAGACATCATATTTGGAACAAGAAGATGCTTCGAGACAGGAATGGGCCCCACTGTCTATGCAGAAACAGACT
GGGGGAATGGCAGTTTCCCTGAGTCTTGGTTTTCTTTATGTTTTCTCTTGTCACCACCAAACTGCAGAGGACC
TGCTGTGACCTAAAGGGCATTTCCTTTAGCAGATAAGACCTTGAAAAGTGCAGAAACCTGGGACCAGGGAGCTTT
TAAAAAATACAAAAAATACCACATTTGCTTTTTCCCTGTGAAGTGTATTGACAGCGTGTCTTAGGACAGTCTT
TTGGTGGAAATGTTACTGTAAAATAGTTTTATCTCACCCCTCCTAATCATACTCCCACTTTCCGTGTTGTGTGG
TGGTGTGTGTTTTTTCTTTTACATGAATTAACCAATGAATTTTGTGTCTATTGTTTTTGGGGCTTATATTTTT
AAAACATAGAAATTGCCTTTTGTTCATTTGAAAAGTAAAGTATGTTGTATCTGAAAAGGGCTCTGCCTCTGCTCT
CCCTCGCTTCTTTGTAACCAATCTCCAAACGAATCTCTCTGGCACCAGCCCCCTTCTTATATAGGGTCACTGTC
CCCGGGGCCACCTCTGCCTCCACCTGTCTGTACCCTGCCCCGGGCAAGGCACCCAGGACTCCCAGAAAGCGC
GAGAGCCAGCAAGAAGGCCCCACTCAGCCTTGAGACTGGTGGTCACACCTCCCTGTGACAGTGCCTGCTGGGCT
GAAGGGGCAATGGATTGTCTATTGTTGAAATGTTTGGCTCAGGTTATAAGGAGGAAGTGGGAAGTAGAAAGTGA
CTTGACCATGTGCATCCTTGGTAGCTTCTGTAACTAAACAATGGAAACAGAGAGCACACCCCGCCCCGCCCCAC
CCCAAGCAGATGTTCCCGTCAGCGCTGCCCTGAGTCAGTCCGTCCCCCGTTTCTGCTCTCCTCCCTTTTGTGTTT
CTGCTCACTTCAAGCTTCTTCCATGGACTTTCCAGGGCACAGTCTCTAGCCCCCAATCATCTCTTCATCCT
CTGTGTGTGCAATTTTTTAAACCAATGAAATAGACAAGAAAGTCATACTTTGGGGCAGCAGAATTTCTAATTTAG
TAGAATCACTGTATAGAGATAGATGTTGATATATATGTTTGTGTATATATCAAAACCAATTTGGATAGGAGAAG
TATAGCTTTACAGATGAGGAGAAGGAGCTCTTTAGAGGTGGAGTCAAGACTGGTGTCTTGGACGTGCATGGGCT
GTGTCCCAGGGCACTCCGCACACATGGGGCTGAGGCGTGGCGCCGGGCCCTGTCTATCCACCTCACCACGGCAGA
GCCAGCAGGCCCTGTAGGGTGTCTGTCTGTCTCACTGGGTCCCAGCTTCAAGCGCATCAGTGGGTGACGGGGGC
AACAAATCAGAGTGACTGGAAGTTTCCATCCCGTTTTGCTTTGACCACGTGTACTGAGCTGCAGCCTCTGATACT
CTGTACGTTTTCCAAAAATGGTATCCATTAGGATAGAAAGAGAATGGATCTGCAGAAATGTTTACCTTTCAACTG
CTCATGAATTCAGGACACTGGATAGAAAGACTCACTCCCCAAATGAGAACAGGGAAGAGGAGACCCGGCGACAC
TAAGTCAACAGGTCCAAGGAACGTGGCTCCCTCCCCAGGGTCACTCTACCTAGATCTTCTCTCCAGGTCACTCT
CAGCTCAATCTCAATAACCTATGAAAGCCCTGGTCTGTTGTGTTCTTCCCGTACGGTTTCTGTAAATAAAAAAG

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FIGURE 1601E

TGTTAATCCATGTTAATCTGTGTGAAAATTATTGCGTGCAACAGTATTTTCTCGGTACCTCTTTTTCCATATG
AATTGTCCCTCTTTTTTATTTATAAATGTCTACTTTTGTTTTTTTAAAGACAAACCAATGTGTTGTAGACCTATA
TGTAACCTATTCCTTAGTCTCATATTATAGGTATGTTATAAGAATGGATATTTTACTTGGCTTTAGAATGTTTA
CAAGAAACTAATTCTTAACTGATCAAGTCCTTGCTACTAAAATGCTTGTTTTCATCATGACGTCGTGTGCT
TCTAAATTAATCATTTTCGTTGTAGAAAAATGGAGTGAATTTATATTAGTCTTGGAACTAATAATAGCATTGTA
AATTTATGAGATGATTTTAACAGAAAAATATAGAAGAATATAGTTATTTAATTGTAATATTACTAACGTAGG
GTGAGAAAAAGGGGGGGGGTCCCATTTGTGGTGAACATGTTATAGCTTGTTACTCATAGTTTCTTTTTGATCAT
TTTTTCGGTCTCCGAGGTGAAATGACTTATTAATTAAAATTTGTAACTCACATATGCATATTGTATATGTGTAG
AAATGTAATCACACTTTGTCTTGGAATTACATTAACTGTTTGAAATCACTGTAAAAAA

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FIGURE 1602

MAPVYEGMASHVQVFSPHTLQSSAFCSVKKLKIEPSSNWDMTGYGSHSKVYSQSKNIPLSQPATTTVSTSLPVPN
PSLPYEQTIVFPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLDITYQKCGLKRKSEEIENTSSVQIIIEH
PPMIQNNASGATVATATTSTATSKNSGNSSEGDYQLVQHEVLCSMTNTYEVLEFLGRGTFGQVVKCWKRGTNEIV
AIKILKNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKNHCTCLVFEMLEQONLYDFLKQNKFSPLPLKY
IRPVLQQVATALMKLKSGLIHLADLKPENIMLVDPSPRQPYRVKVIDFGSASHVSKAVCSTYLQSRYYRAPEIILG
LPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGTKTTRFFNRDTSPPYPLWRLKT
PDDHEAETGIKSKEARKYIFNCLDDMAQVNMTTDLEGSDMLVEKADRREFIDLLKKMLTIDADKRITPIETLNHP
FVTMTHLLDFPHSTHVKSCFQNMIEICKRRVNMVDTVNQSKTPFIHVAPSTSTNLMTFNNQLTTVHNQPSAASM
AAVAQRSMPLQTGTATQICARPDFQALIVCPPGFQGLQASPSKHAGYSVRMENAVPIVTQAPGAQPLQIQPGLL
AQQAWPSGTQQILLPPAWQQLTGVATHTSVQHATVIPETMAGTQQADWRNTHAGSHYNPIMQQPALLTGHVTL
PAAQPLNVGVAVHVMRQQPTSTTSSRKSKQHQS SVRNVSTCEVSSSQAISSPQRSKRVKENTPPRCAMVHSSPACS
TSVTCGWGDVASSTTRERQRQTIVIPDTPSPTVSVITISSDTDEEEEQKHAPTSTVSKQRKNVISCVTVHDS PYS
DSSNTSPYSVQQRAGHNNANAFDTKGSLENHCTGNPRTIIVPPLKTQASEVLVECDSLVPVNTSHHSSSYKSKS
SSNVTSTSGHSSGSSSGAITYRQQRPGPHFQQQQLNLNSQAQQHITDRTGSHRRQQAYITPTMAQAPYSFPHNS
PSHGTVHPLAAAAAAHLPTQPHLYTYTAPAAFGSTGTVAHLVASQGSARHTVQHTAYPASIVHQVPVSMGPRV
LPSPTIHP SQYPAQFAHQTYISASFASTVYTGYP LSPAKVNQYPYI

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FIGURE 1603A

GTATATGTTTCGTGAGTAATTTTAAAAAATAAAACAGGTTAATAAGAAGATCCATTCCCTTTGCATGTGATTGTT
ATAACAATCTTTCCAGGGAGTTCAATTTTCAGCAACCTCAGAAATCCATACTTGATATTAGGAACTGTAAATGT
AACACCTGAAATTATTATGTTCACTATTCTACATGAACCTTATGGAAATTCATGATTTATGTCTTTGTTTTCTT
TTTCCAAGTATATGCAGGACTCCCCAACCTTGATTTTATAATGGTGACTGCATTTTGTAGGTGGAATCATTCTA
CCGAAATCATTTTGAAACACAAGAATATTGATCAGTACTGTTTCACTCTGATTTAGTAAATCAGAAAGCCTCCCC
CTACCCCCAGCCCCACTTTCACATAACCTTCTGGGAGGTGCCTCAGTATAGACTTGGTATCTGTGAAGGACTGAG
TTCATGAATATGCACAGAAGCACTTAAACCATGCCTCTTATTTCTATAATATCTGAAAATGGCTTCATAAAAGTT
AAGTCAGGAGAACACTGTTTACATGACACTTCTAACTCATTTTTAATGTTTATTTTAATTTCAAAAACCTTGTT
GCCTATTTGGTTTTTCAGTACTGCATAACACTGACTTCTTAAATTAGTCATAGTTGCAATAATTTACTTAAATTT
GGTAATGTCACATTTGGGTTGGGGTTTCAGTGGGAATAGTAACTTGCCGCTAGTGAGAAATGGCATTGAATACTA
AAGACTCAATATGAACAGGCTTTATAGACCCTTAGAGAACTGTTGCCTTAATGTTTGGTGCAATTTCTAGTAGT
GCATAAGTGAATTTAGTCTTATGATAAGTAACTTTGAGCTGTTTTAGCTTAGTAAGAATTGTGGAACCACATG
TTTATTGTGCCCATCATTTTACACAAAGAAAAGAGGATTATATTATTTCTTCTAAGGAAGTAGGAGTTTCTTCC
TAAAAGTGCTTACATATTGTACTACTATTACTTAAAAGTTATTTATGAAGTTGGGAGCCTTCTAGTTGCCTGTG
TTGATGTATTTTGAAAACAAAATTGCAATAAAGGATGAGCTTCCATCGGTGTGTATGGTATACCAGATACAGATG
GTTGCAAGGAAACCTTTTCCCCACTAGAATAGTCTATTAGTAACTGCTAAGTCCTAGCTTGCATTTTGAANA
GCCTTTCTGCATGTTAGCACCCAGACTTTCCTTTGTCTATTTCTTTATAGCTACAACCTTAACTGTAGCTTATCA
GAGAAGCTCTGTAGTCTTACACTGAAGTGTGTTCCTTTGGCTGTTCATATGGGGCTGGGTTTGGTTGAACCTTCCA
TTCTGTATAAATGCTAGAACACAGTTACTACAGATTGATTACAAACTGCATGTGCTGGTGTGAGGCAGCCAA
AATGGAATGCTGTGGAAGCATATCTATATCTTAAAAAACTCAGACAGGAGTTAAGGACAGCTTAAATAATTT
TTTTGTTTACCCTTAACTTTATCAACTTTGATTTTAGTTAGGGCTTAGCTCATGGTTGAAGAAAAGTGGAAAA
TAACAAGTGCCCATTTAGGTTTGAAGAATCCAGAATGTTTTACCTTTGACTTTATGAGTTATAGAAGCTTGGCTT
TGCTCTAGGTTTCATGTTCCCAAATGAGCCATGTCTCAGTATATTCACTTAATTCCTTACTAATTTTCACTTTCCTG
TAAAGGAAACAACCTTACATATTGATGCTTAAATCCAGAAAGTGTAAAAGGTTTTCTTAACTGTTAAAATATAGT
GTCTGATATAAAGGATGTAAGTTACTCAGCTTCTGCTCCCTAAGCCAAACAGTGTTTGTCTTCAGTGTGAATTT
TAACTGTAAAAACTACTTGTATGTCAAGAGATTATAGATCATATTATTAATAAATGACCTGGGTCTAATATT
TTTTTTTTCTTCAAAGGGAGTGTGAAGCTGTTTATTCTTTTTATTGTCATATGAGTTTTTCTTTTAGTTTTAGTTTT
TCATGTTTCATATTTCCACTGATTTGAAAACACAAAATTTATTTTTATAATTTTGTGCTTGTAGCATAATCAAGT
GCAAAATCAAGTGCAACCTACTTGTGACTAAATCTCTTTGGATTATAGCTGAGGATATTGTTAGCTAGGTTTTG
TCAATCCCTAATCATTTTTTAAAAATCAATGCTGTATTCCCAGGAGGCTTTGAGACTCCTATGAACCTGAAGCACT
CCCTTTTGAACCTTGAAGATCCTCAAAGAGTGAGCACTCTTGTGCTCTTCTAATCATAATTAATTCCTTAACAA
ATCAGAGTAAGGACCACTGACATATAGAACCTCAAGCCAAAGAACCATCACAGAATTTAGTAACTTTAGTTCTG
TGAACATGAAAAGATTTCTTTTTTGGTTTTCCAAAGGAGATTATTTATTTTTCCACAAGGAAAAACATCTTGAGA
GACTCTGAATCCAAATCTGAGTGAGAAAGAAAAGGAAAAAAATCTGTTTCAIGGTGGATTTCTAAGCAACATAT
ATACATGTTTTTAAGACAACCTTTTGTGGCAGTGTTTTTCTGAACACCATATGCACCCTAGGAAACGTTTTTCT
CTTTAATCTTGTTTACATATCAGAAAAGGACATGAAATGCTCATACTGGCATAACAAGTTTCTATAAGTAGTTATT
TTTTGAGCTACTTATACTATATCCCCAAAAGCTCACAGTGCCTTGTTGGGATTTTTTTTTTCCATGAACCTAGCCA
TTATTTTAAATGAGTGGGAGAGGGTAAGTCTTTAGACAGAGGTCATTGAGCAGTTCAAGACTATTCCTCTTCAAG
AACATGTCAGGAATTAAGCAGTTATATGTGGAACACTGGTAATCTTTCCACAGTGTTGTTTTGGATAATCTGT
TCTAGTATATTTAACTAATTGTATGGTGGACCTGTACTCTGATACACATCGAATCAGTCAATGGGATTTGTATGT
GCTTTTCTTCTCTACATTTTCTTCTACTGCCCCAACCTAGTAGCCCTAAGTTGTGGCTTGGTGGGTTTGGCAC
TGAGCCTCAAGACACTCACTACATTTCTTCTGGATGTTTGTCTCACAGGCTCCCTGAGGAGCAGAACCTGTGGAGC
TGGGGAGTGCGGGTGGTTTTCTATTCCTAATATTGTGTGTCAGTCCTTTTTCTGTGTGATGGTGCCTTCAGAATAAC
GAATATTTCTGTTCTGGACAATGATTAAATCTTATGAGAAATATATGTAGGTTATATTAATCTTGTCCATTTTT
GCTAAGCCTGTGAAATACTTTGGCTCTGATACAACCTTAACTTGAATAATATCTTATCCTGAGTCTTCTTCAAGG
CAGTACATATTCCTGCCAGGACTGTAGTAATCCTTTGGGAACCTACATGTGAGTAAGCACTTGTATGTAAGCCATT
ATACTGCTGTAACCTAATGCATACAAACAATCTTCTCTTTACATTTATAGTCTAAAAGGGGATATGCAGTGGGAA
GGAAAATTCCTGAGAGATTCCAGCATAGCTTTGTCAATTCCGACTGAGCCATACTGTTTTCCACAAGGGCTCAAC

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FIGURE 1603B

ACATAGTCAGTATTCCGTGCTTTCAGTGTGTGTTTCAGATTCTCCTCTTACTGGTTTTCTTAGACTGTATTGTTCT
ATAAGCAAATGCCCATGTGTGATTTTTAAGATGTGCTGGGGAAAAATAAATCAATACCACAACGGAAAAATCACA
CATGGGCATTTGCTTATAGAACAATACAGTCTAAGAAAACAGTAAGAGGAGAATCTGAACACACACTGAAAGCA
CGGAATACTGACTATGTGTTGAGCCCTTGTGGAAAACAGTATGGGCTACTAGGTTGGGGCAGTAGGAATGAAAAT
GTAGGAAGGAAAAGCACATACAAATCCCATTGACTGATTCGATGTGTATCAGAGTACAGGTCCACCATACAATTA
GTTAAATATACTAGAACAGATTATCCAAAACAACACTGTGGAAAGAATTACCAGTGTTCACATATAACTGCTT
AATTCCTGACATGTTCTTGAAGAGGAATAGTCTTGAAGTCTGAATGACCTCTGTCTAAAGACTTACCCTCTCCC
ACTCATTTAAAATAATGCTAGTTCATGG

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FIGURE 1604

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FIGURE 1605A

AGCGGCCGCCAACGCCGCCGGACTGGAGCCCTGACATTGCTGCGCTCGGGGGCTCCAGGCAGCCCGTATCGGG
GCCTTTATTTCTCGTCGGCGCGCCCTGCACCGCGCCTCGCAAAGCCAAACACCAGAGCACCCCTAGAAGTTTTAA
CTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAGGCCATGGACCCTGTCTCAGTGTACATACCCAT
CTAATTACATGGAATCCATGAAGCCTAACAAAGTATGGGGTCATCTACTCCACACCATTGCCTGAGAAGTTCTTTC
AGACCCCAAGAGTCTGTGCGCACGGAATACAGATGGAGCCAGTGGACCTCACGGTGAACAAGCGGAGTTACCCCC
CTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCTCACACCGGAGAGCCCTCGCCTGGGTTGAGCATGC
CTTCTTCCAGCCACCATAAAAAATACTACCCCCCTTCTCCAGGCGTGCAGCCCTTCGGCGTGCCTGTGCCA
TGCCACCAGTGATGGCAGTGCCTCTCGCGGCATGGAATACGGAGCCCGGGGATCCTGCCCGTCATCCAGCCGG
TGGTGGTGCAGCCCGTCCCTTTATGTACACAAGTCACCTCCAGCAGCCTCTCATGGTCTCCTTATCGGAGGAGA
TGGAAAATTCAGTAGTAGCATGCAAGTACCTGTAATTGAATCATATGAGAAGCCTATATCACAGAAAAAATTA
AAATAGAACCCTGGGATCGAACCACAGAGGACAGATTATTATCTGAAGAAATGTACCCCCCTTAATGAACCTCAG
TGTCCCCCCCCGAAGCAATTGTTGCAAGAGAATCACCCCTTCGGTTCATCGTGCAGCCTGGGAAGAGACCTTTACCTG
TGAATCCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGTGATTATGATGGATGCAACAAAGTGTACACTA
AAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAAAAACCCTACAAATGTACATGGGAAGGGTGCA
CATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGAAAACATACTGGAATCAAACCTTTCCAGTGCC
CGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTCCATAGGAAACGCCACATGCTAGTCTAGTTGC
CTCTGTCTCTGCCTCAGCGTGACTCCCCACTCACCTGGCTCTCTCTGTCTCTGCCTCCCATTTCTAACACAT
TTTTTACATGTACATTTTAAATTTGATTGAGTGGTCTGAATCTCTGAATTTATATCATCCAAACCTTCCATATGG
TCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGTGAGACCTAAAGAATGTGAACACTTTTTTTTT
TTTTTCTGGGGATGCTAAGCAAACCTTCTTACAGATACGTTTAAATGTAATAAGAACAAGGAACATGTAAACTA
ACATAACCAATTGTCAAGTCTCCATGTATTCTCAAAGAAATGTGAGAGTAAATGTATTAGAAATACAGTATCCA
GACTGCTAGTCTTGGCAGAGACATTCTTACCTCTGCCCTGTGATAATATTTATGCTTGACAGTGAAAACAAGT
GTGGCCCCCTTGACCGGTTAGCTAGAAGTACAGCCAGATTTCAAGCTAGTGCAGTCACCTCTCCGTCATTCTTC
ACAAATCTGTCAACCTGGATCTTAGACTTCATCTGAATCGAGTTCTTTGCCCTCCTTTGTGCCTGCAGCTCATA
TGGAGGTCTTTGCCACCAATGGGAGATGAGCCCAAACCTTCGATCTAGGTGGGTGATGTGTAGCAGTTCAAGGGA
AGGGTGTGTGTTTTATAGCATGGAGTCGGAGGAGAGGGCCATTTAGCAGGGGGAGCAGAAGAGGCAATTCCCTC
CTGGGCTAGGGGTTGTCAATGAGGTTTCAACATTTTGTAGCTGTGTGCAGCATTCCCAGAGCTTCAGTCTCTGT
GCATACTCAGCTTTGTAGAACCATGCTGCAAGCCATATACCGATGGGGTTATCCATGCAACTATCTCCATTCTCT
ACAATGTCCTTAATATGAGATCATCAACATTGATAGTAGGGACTCCATGGAATATTTGCCAGTAATGGTAAGA
AATCTTTCCGGTAAGAGTATGGATGGTTCTCTTTTACCCAATCTGCTTATAGCTTTTTTTGTAAACAGGGAAAT
GTTGAGTGGTACTTGTATTCCCTTATCAAATTAATCACATAGCTTTTATACAGAACTCTTCTGTGTGAGCTGT
TAAGGTGCCAAATTGGCTGTCAATTTGTATTGATGACACATACCATAAAGCATCTGCTAATGCTTTAATGGATTGA
TTCAATTAAGACCTGAGTGACACTATTTGTAAATATAACTAGTTGTGAAGCACACATACCTTTATTTGGGAATT
TATGAGAAAAATATAGAAAACACAGATCAGGGATTCAATATGTAGCTCAAAAATTTCCCAAAAGTTTACTGTAG
AGTTGGCAATTTCTATCACTATTTTCAGTGTCAGAACAACTGAAAATAATGGCTCGTGTATTGTTGAAGATAA
ATAGCACCATTATTGGGGGAAGTTATTCAAAGCAGGCTTTTGAAGCACCATAGTCTAAATGCCAAATAAAATAAT
TCATACATAGAAATGTCATTGGTCTGAATTTGAAGAAAGTGAGCAACAGTAGTTAAATGTGGGTGCATATAACC
AAATTTCCCTTCATCAAGAATGGAGGAGAAGAGAGAAGAAATGAAATCCTGAAGATTATCCAGCCGCAACTCAG
GATCCAAACACAACCTTTAACTGGGAGGAATACATTGTTTGATCATTTTTTAAACATCTGTGAATGAGTGATTCCGG
AGGCCTGTGAATTGTGTGGGAGCTTGCTTTGATGGCACTGTGTTAATAAAAGTTGTAGGGACTGTGCACCTAAG
AGGCTAAGAGGTCCCACTCATCCGCCCTGTGAACCAGCTGTAAAGAAATGTAGTTAAGAAATGCAAAGAAATGTG
TTATCTTGGCACTTGGGTTTGATTTTCTTTTTTAAAGCACTGCAAACTTCTTTAGGATACTAAACATCCTA
ATTGGGCTGTTTTTTGTTTTGTTTTGTTTTTTCAGCTAAAGGCAAAGATAATTTTTTTTTTTCAGCTGAAGTTTTTC
TTTTTTGCAACTATGACATGAATTGAGTGATAAAATGGCTCTTTGAAAAGTAGATATTGTCTGTATTGTAAATGC
TTAGTCATATTTCATGCAAAGTGTTTCTTTGAGATGGTTCTTTTCAACACACAAGAATCAAGATGGAACGC
AAGGAAAATCTTTTTGTTTTGACCGAGGTAACCAGTTTATGTGTGTTCCAATCCATAGAGAAGTGGGGGAAAGGG
CGAGAAAGGATCAGATTGATCTGGGATCAGCTTTGAGCTGAGTTTCAATAGCCTCATGGGCATCTCATGGA
ATTGATGCATTTGCTGTGGCATATTTAAATTTGTTCAAAGATTGAAGCAAGACCTTGCAAAGACTCTTAACA

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FIGURE 1605B

TTACTGTTTCAGCTTGCTTAGATTGTGTTAACAGTTCATTTAACAAAGATCCGTTTTAACTCTGAACAAAAGCAAC
CCAGAGCGGCCATTCTCTATTCCCATGCTGGTCAATACGCTTTCATTACCAATTGGCCCTTACCAAACCTTTTCTT
ATATATATATTTGTATTTTACTATGATAGTTGAGAAATTTAGCCTCTTAGTCATTTTTAGCTGTTATTGTGGAAG
ACCTCAAATACAAGATTAGATGCCCTTGAACATGTTTTAATGATGTGTGTCATGTTACTATCAATGGTGATTTC
ATCGCAATATTTTAAATTGATGAGAATGATTTGTAAACATGAAGTTACTATTACGTAAATTCTGTTTGTATAGA
GTTTCTTCAGTTGTTACCCAAGTGTATCCTAGAGAAGTCAGAAGAATCAGAATCCATCGTATTTTAGAGTTATG
TGAATCTACATCATAAATGGGCATTAACATTCTAAATTGCTTGGTTTGGAGAATGTGTTAGCAGCATAGCTATAT
TCAACTAGGGAGATGCTAAATACACAGAAGTTTCAAGAGCCTTGGAACAGAATTACAGGGGAACCTATATATGTAT
ATGTATATTTTATTAAACACCCATCTGCACTATCAGTATTGCCTAATGTGGAATTGAAAGACTATTTTGCTGA
TACTGTATATATGCGCATCATTCCTGATTAGATTGTGTAAAGACAATCTGAAAGATCTAAGGTTTTAAAAATAAT
TTGGTTTGAAAATATACAGTTGTCTTGAAGGAATTGCTGTATACATGAAGTTGCTCCGAGCTGTCTTTATTCTC
TTCTTGGTCAAGGTTAACAATTGCTAAATGATCGCAAATTCACCTAAACAATACATTACAAAGCCATCTTTACA
TGCATTAAACGAGGGCTACAACAATATTGTTTTACAAATACTAGCACTTTTTTTTTCTGTTATGTACTTAGTGTTA
GAGGGTCAAATAATCTTTCTGCTTAGCATCTCTTAAACCATACCTGCAAATATAGCAGGATTATTACATTTACA
GTACTTTAATACTTGTATAAACTATGCAGAAATTTTAAATAAGTGTAATATATTTTATAAGCTAATAAGACTGA
ATGGGTAAAGGTTTTTAGCATGCGTTAGTATACTTGCAGATACTGAAACATTTTGGTAACTCTTTCTTACTAAAGA
TGGAATGTTTAAATGTACCTTCTCTGTTTCTACTCTGTAGTCCAATGGGAATTCAGTAATGACATTTTGTCAATG
CAAACGTGAACATAAATTTGTACTGTACAGTCCTCATATACTATATACAGTATGCAATATATATTATATACTTG
TTAATAAAACCATCAGAATATTAAAAAAATCTATGTGCGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC
GATATCAGC

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FIGURE 1606

MLMFDVPVPVKQEAMDPVSVSYPSNYMESMKPNKYGVIIYSTPLPEKFFQTPEGLSHGIQMEPVDLTVNKRSSPPSA
GNSPSSLKFPSSHRRASPGLSMFSSSPPIKKYSPPSPGVQPFQVPLSMPPVMAAALSRHGIRSPGILPVIQPVVV
QPVPFMYTSHLQQPLMVSLSEEMENSSSSMQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEEMSPPLMNSVSP
PQALLQENHPSVIVQPGKRPLPVESPDQQRRIHRCDDGCKVYTKSSHLKAHRRHTHTGEKPYKCTWEGCTWK
FARSDDELTRHFRKHTGIKPFQCPDCDRSFSRSDHLALHRKRHMLV

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FIGURE 1607

TTTCGCAGGCCGATCCCCACTCCAACCGTTCCCTCAGCAACCCCAGGGGTGTCAGACGGGGCACCCTCCCCACTGT
CTTCTCCAGCCAGCCTTAAAAACCCCAGAGACGCCAGCCTGGGAACGATCTCAGTATGGAATCTGAAGTCGCCTT
GTCAGCACAGACACCTCTGGGGTCCCCAGAAGACCTGTGGCAAAGTTCTCTAAACCGAACCTGGAGAGGGGAAGG
TTTTCAAGCAGGAACACATAAATTCACCTAAAACTCAGCCTACACCCCTCTGTGATAAAAAGATTCTGTTTCT
TCTGTTGGAGACTGAATTTCTCTTCAAGACTACAGTACTGTATCTGTCAATCTGTGGAAA

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FIGURE 1608

CTCTTACAACATTGGCTGCCGGCGTGACTTTGACCGCTTCCCGGTGCGTTACCGGCAGCTGAACCCACCCGGCGC
CACGGGACTTTGACGCGTGCTCTGCGCTTGCCATGAGACTCCTGGGAGCTGCAGCCGTCGCGGCTCTGGGGCGCG
GAAGGGCCCCCGCTCCCTAGGCTGGCAGAGGAAGCAGGTTAATTGGAAGGCCTGCCGATGGTCTTCATCAGGGG
TGATTCTTAATGAAAAATACGAAATATTGGAATCTCAGCTCACATTGATTCTGGGAAAACATACATTAACAGAAC
GAGTCCTTTACTACACTGGCAGAATTGCAAAGATGCATGAGGTGAAAGGTAAAGATGGAGTTGGTGCTGTCTATGG
ATTCCATGGAAGTAGAGAGACAAAGAGGAATCACTATTAGTCAGCAGCCACTTACACCATGTGGAAAGATGTCA
ATATTAACATTATAGATACTCCTGGGCATGTGGACTTCACAAATAGAAGTGGAAAGGGCCCTGAGAGTGTTGGATG
GTGAGTCTCTTGTCTCTGTGCTGTTGGAGGGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCT
ACAACGTTCCGTTTCTAACTTTTATTAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGCCCTGCAGCAAA
TGAGGTCTAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTAATTTTAAAGGTATTG
TAGATCTTATTGAGGAACGAGCCATCTATTTGATGGAGACTTTGGTCAGATTGTTTCGATATGGTGAGATTCCAG
CTGAATTAAGGGCGGCGGCCACTGACCACCGGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTG
GTGAGATGTTTCTGGAAGAAAAATCCCCTCGATTTCTGATTAAAGCTAGCAATTCGAAGAGCTACTCTGAAAA
GATCATTACTCCTGTATTTTGGGAAGCGCCTGAAGAACAAGGAGTTCAGCCTCTTTTAGATGCTGTTTTAG
AATACCTCCCAATCCATCTGAAGTCCAGAACTATGCTATTCTCAATAAAGAGGATGACTCAAAAGAGAAAAACCA
AAATCCTAATGAAGTCCAGTAGAGACAATCCCACCCATTTGTAGGCCTGGCTTTTAACTGGAGGTAGGTTCGAT
TTGGACAATTAAGTATGTTTCGAGTTATCAGGGAGAGCTAAAGAAGGGTGACACCATCTATAACACAAGGACAA
GAAAGAAAGTACGGTTGCAACGGCTGGCTCGCATGCATGCCGACATGATGGAGGATGTTGAGGAAGTATATGCCG
GAGACATCTGTGCATTGTTTGGCATTGACTGTGCTAGTGAGACACATTACAGACAAAGCCAACAGCGGCCCTTT
CTATGGAGTCAATTCATGTTCTGATCCTGTCAATTCAATAGCAATGAAGCCTTCTAACAAGAAGATCTGAAAA
AATTTTCAAAGGTATTGGCAGGTTTACAAGAGAAGATCCCACATTAAAGTATACTTTGACACTGAGAACAAAG
AGACAGTTATATCTGGAATGGGAGAATTACACCTGAAATCTATGCTCAGAGGCTGGAAAGAGAGTATGGCTGTC
CTTGATACAGGAAAGCCAAAGTTGCCTTTGAGAGACCATTAATGCCCCCTGTCCCGTTTACTTTACACATA
AAAAACAATCAGGTGGTGCAGGCCAGTATGGAAAAGTAATAGGTGTCTGGAGCCTCTGGAGCCAGAGGACTACA
CTAAATTGGAATTTTCAGATGAACATTTCGGATCAATATTCCAAAGCAGTTTGTGCCTGCTGTAGAAAAGGGGT
TTTTAGATGCCTGCGAGAAGGGCCCTCTTTCTGGTCACAAGCTCTCTGGGCTCCGGTTTGTCTGCAAGATGGAG
CACACCACATGGTTGATTCTAATGAAATCTCTTTTCATCCGAGCAGGAGAAGGTGCTCTTAAACAAGCCTTGCGAA
ATGCAACATTATGATTCTTGAACCTATTATGGCTGTGGAAGTTGTAGCTCCAAATGAATTTAGGGACAAAGTAA
TTGCAGGAATTAACGACGCCATGGGGTAATCACTGGGCAAGATGGAGTTGAGGACTATTTTACACTGTATGCAG
ATGTCCCTCTAAATGATATGTTTGGTTATTCCACTGAACTTAGGTCTATGCACAGAGGGAAGGGAGAATACACAA
TGGAGTATAGCAGGTATCAGCCATGTTTACCATCCACACAAGAAGACGTCATTAATAAGTATTTGGAAGCTACAG
GTCAACTTCTGTATAAAAAAGGAAAAGCCAAGAAGTAACTTTGCTTACTGTGAGTTGACTGACTCTAATTGAATC
TGCGTGGTTTTGATACTTTGATGGATTCCAGTGGAAATAAATTCAGGCTGCTGAAACAAGAAATCTGAGCCCAGG
AAGCGGGCTCTTCTTTCTCAAAAGAAGCCCTTCTTGTTTCATATTAGGAGCTTCTGTTATATTCAAAGGTAATT
CTATGTCTATCTCAACTCTATTGATTGGTTTTATAGTTTTATTGAAAATCCTCAAATAAAATATAATTATTACTGA
AATATGTTAATATTTAAGGGGAAAAGAGACTAATTTAGTTATACTTTTAAAGCTTAGAATGTATGTTTCAATTC
AAATTTGTATCATAAGAGTTTTCAACATAGAGAAAAGCTGAAAAATGCAAAGAATAACCACATACTTTCCATC
TACCTTCCCTTTGTTAACGGTTGTTTATCATATAATAATTTGTTTTGTATATTGCTTTTCACTGTCTATTATCT
GTTTAAAGTCTCATAACTCTATTTTTAGTTTGTGAGACTTGAAAGTGAATCGCATATATCATGACACTTCTTGG
AGTGTCAATTAATGGGCAGGCTTTTCTGTTGAAGAGTGGATTCCGTATGTTCTTCATAGAGAGTGTTTTCAGATT
CTTCATTGGGATATTAATATTAGCCAAATTTCTCTGTTTTATATATGCTGTTTATTTTCACTTTGTGGTTT
CTGCAAAATTTGTAAGTGCCTCTGTTTTAGGAGTATAAGTATTACTTCTTGTGGTCTATTGTGAAGTAAAAAGTA
GACCTTGCATATACTATTCTGTTTGTGTTTCATCTTAATGTTTTGTACAGCTAAATCAAATGTAATTTATAGA
GTTAGTTTCATCAACCTAATGAATGCTAGTTAAATTTGAATTCCTTGGAAATTTATCGTATATTGTATTCAGTGAG
ATTATGAAGGACAAATGTTAATCTTTTGTTCAGAAAAAGTTGGGCTTTCCCAAGCAGTTCTATTACCCGGTT
CAGAATTGCTTCATCAAAAAATCATCTGATGGTATAGATGGATCCTAGTCCTTTTCACTTACCTGATGGTAGAAAT
AAAATAATTGATT

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FIGURE 1609

MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDSGKTTLTERVLYYTGRIAK
MHEVKGKDGVGAVMDSMELERQRGITIQSAATYTMWKDVNINIIDTPGHVDFTIEVERALRVLDGAVLVLCVGG
VQCQTMTVNRQMKRYNVPFLTFINKLDRMGSNPARALQQMRSKLNHNAAFQIPMGLEGNFKGIVDLIEERAIYF
DGDFGQIVRYGEIPAELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAI RRATLKRSFTPVFLGSA
LKNKGVQPLLDVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNSHPFVGLAFKLEVGRFGQLTYVRSYQ
GELKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICALFGIDCASGDTFTDKANSGLSMESIHVDPV
ISIAMKPSNKNLEKFSKGIGRFTREDPTFKVYFDTENKETVISGMGELHLEIYAQRLEREYGCPCITGKPKVAF
RETITAPVPFDFTHKKQSGGAGQYGKVIQVLEPLDPEDYTKLEFSDETFGSNIPKQFVPAVEKGFLDACEKGPLS
GHKLSGLRFVLQDGAHHMVSNEISFIRAGEGALKQALANATLCILEPIMAVEVVPNEFQGGQVIAGINRRHGVI
TGQDGVEDYFTLYADVPLNDMFGYSTELEGRSCTEGKGEYTMEYSRYQPCLPSTQEDVINKYLEATGQLP VKKGKAK
N

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FIGURE 1610

GGCACGAGGCCTTCGGCCACCCCGCTGACCATGGCAGTGTTTCATGACGAGGTGGAAATCGAGGACTTCCAATA
TGACGAGGACTCGGAGACGTATTTCTATCCCTGCCCATGTGGAGATAACTTCTCCATCACCAAGGAAGATTGGA
GAATGGGGAAGACGTGGCAACGTGTCCTAGCTGCTCTCTCATTATAAAAGTGATTATGACAAAGATCAGTTTGT
GTGTGGAGAAACAGTCCCAGCCCCCTTCAGCCAACAAAGAATTAGTTAAATGCTTGAAAGAAGCCTTCAGGAATCCAA
ATCCTGAACATTTGGAATGAGCCCAGATAGAAATATCGAATGCAAAGCTACTGGCTTCACAGAGACAACCATTTA
TGATTTGCTGTTCTGTAAGAGTGTGGATTCTTTCTATCAACIGCTGATATCAICTTCAGGAAGCAAGTCCATAAC
ATGACATATCTGGATTTTGTGCTTAGAACCTTAAATTGGAAGCATTCTTAATTATGCATCTAAATTTAAAAGAAG
ATAATTTCAAAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1611

MAVFHDEVEIEDFYDEDESEYFYPCPGDNFSITKEDLENGEDVATCFSCSLIIKVIYDKDQFVCGETVPAPSA
NKELVKC

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FIGURE 1612

GGCACGAGGCCAGATACTACTGGCCATCAAGGGACAGAAGAAAAAGCGCTCATTGTGGGGCACTGCATGCCTGG
CCCCGAATGACCCCCAGATTCGACTCCAACAACGTGGTCCTCATTGAGGACAACGGGAACCCTGTGGGGACACG
AATTAAGACACCCATCCCCACCAGCCTGCGCAAGCGGGAAGGCGAGTATCCAAGGTGCTGGCCATTGCTCAGAA
CTTTGTGTGAGTTGAGCCCAGGCCTCTGGTTGCAGGACTCGTGAATGGAGCAGTTCTGAGAACCACCCTTTGCT
AAGGGAGCTTGGGAGCCACATGGCTGCTCCCTTCACACTGGGTAACAGTGTAGTATCCTGTGAGAGAATAAATGT
ATTCATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1613A

GCACCGCCCCGAACACGCTAGTGGAGCGGAAGATTGCGGCGGGCGGTGAGGCGGCCGCTTGACGCCGGGACTTCA
GTTGGGCTGAGGCGGAGGAGCCGCCCTTCTGACCTCGCTCTGGCTCCGGTGCGCGGGCTGAGCGCGTGCGAGG
CCCCGCGCTCGGGCAGGGGCGGGCGGGCCACTGCGCGCGGCCCTGAGGAGCGCCCCAGCGGCGGCGGACTGC
GGCTGAGGAGAGAGCCGGCTCCGGGCTCCGCGTCTCTGCTCCCCCGGCCCCCGCTCTCGGGGGGGCGGC
GGGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCCGTAAGGGCTCTCAAGAAGGGCGC
GTGCTACGGGGACGACGCGTGCTTCGTGGCCCCGACCGTTCCGCGGACGTGCTCGGGGTTGACAGTGGTGTAGG
AGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTAGTAAA
AGAAGSACGGTTCGTACCTAGTAATCCCATTTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGCAAAATAAAGT
CCCTTTGCTCGGTAGCAGCACCAGCTGCATTGTGGTGCTGGACAGAACCAGCCACCGCTTACACACAGCAAACT
GGGCGATTTCAGGCTTCTGGTTGTGAGGGTGGTGAAGTCGTGCACCGATCAGATGAGCAGCAGCATTACTTCAA
CACTCCATTCCAGCTCTCAATCGCTCCCCCTGAAGCCGAGGGAGTCGTCTTGAGCGACAGTCCGGATGCTGCTGA
TAGCAGCTCTTCGATGTCCAGCTAGGAGACATTATCTGACGGCAACAGATGGACTCTTTGACAACATGCCTGA
TTATATGATTCTTCAGGAGCTAAAAAGTTAAAGAATTCAAATTATGAGAGTATACAACAGACTGCCAGAAGCAT
TGCTGAGCAAGCTCATGAGCTGGCCTATGACCCAAATTATATGTACCTTTTGACAGTTTGATGTGACAATGG
ATTGAATGTGAGAGGTGGAAGCCAGATGACATCACCGTCCTTCTTCAATAGTGGCTGAGTATACAGACTAGCT
GAGGTGTCAAGTCTGCTTTCTTTTCATCATCCAAATTTCCCTGCCATGTGTGCTGATCCTGCTGGCAGGAC
CACATTTCTTTGCCACTGATCTCAATGGCCAGTGATGTAAGTCTTTTGCTGTCTTCTTGAGACTCGTTGAGATC
TTTGTGTGAGAACCACTACTATCATTCACTAGCTCATATCTGCCGCGAGCAATTGAAGAGATCCAATATTTGAAGA
TTGGCCTTCATTTCTCGATGTCTTTCCATGATGGGGATGGAGGTGTTCACTGCCACCGTGGCTGTTACTTTTCA
AAGTAGTTGAAGTATTGAAAAAGAGTAATGTTGGTAAAGTGAATCAAAATCCTAGTATGCTAAAGGGATGGTAC
AAGTCTAACACAAATTGTACGTAATGATACATCTACTAGAAACATACATTATTCATCAAAAGAAATGTTACATGT
GTACTCCACAGGCATAGTCTTTGTTATGATGATTGGTGTGGCTTTATGTCTTTGTTATAAACTCCTATTTTTAG
GGGCTTATGATCTGCTCTAAACATTGCTCTGGGTTATACAGTTTGATCCCAAAGCTTTTTTGTGTACAAATC
GGGAGAAAAATCCATTTTTAGTTCTATGGATGGAATATTTCTAGCTTTTAAAAAGATGTTTGTGTCTGTGGTT
AAAGTTTTGGCAGTTTTATTGATTAGTCCAAATCAGGCTTAAGGCTGATCTCCAGGAGGGGTAGGGGAGACACT
TTACCAGTATTTTTTATGGAATAATACTCAAGGTGTAAGGCTCAAGGCTCAAGGCTGAGTCCAGGAGGGGTAGGGGAGACACT
CTGAAATTCCTCCTAGTTGTCTGATAGAAATGCCCTGAATGGGAACCTAGGTCCTCAAGGCTGAGGAGGTGAGA
ACAGACAGCTGTAACCTTTGAATTTTTGTTGGCTTTCAGTGGTCACTGCTACCTACCCATACCTGCTCAGACCT
TTTATTAGTAGCCTTGCTTTCTATAGAGCATGCACCAAATCCAGTGAGTCCATGTGGAGAGAGCACTGTGTGCGC
AGCGGCAGCAGCACAGACGTCCATGAGGAAAACCTCCAGTGATGATCTGACATTACAATTACCCCATGTGGAAA
TTTAGGGGTTTCTGAATCAAGCTTAATGTTTACAGTTTCCAAATAGCCATTTTGAGTGTATAGTTTCTTTACAA
AACTACCCCGCATTGATTTTACATTATCTGCAAGCTGAAACTTATTTTTAAGTTTTGTGTACAAGTTGACTGC
TGTAAGATATATATTTTTGGGTGAGTTTTTTTCTTTCATTAACCTTGGTGGTAGAAAAAATATATACTTAGAAA
TCCTTAAATTAAGCCATGTTTTATATATAAGTCAGGTAACATTGGTGTATAGATGAGAATGCAATTAAACCTGA
TGAGAATCTACTTGAGAATATAGAAAGCTTTCTCTAAAGGAGATACTGACTCCCTGGTTTTATTGCATTAAATTT
TATGTTTGAGGTTACCTCAACTGTTTTTAAAGATTTTTGTTTTGTGAATTTGTACTGTATATTTGAGTAACGTG
AGGCTTTTATTTAAATGTTTAAACATGTACCATGTACATGTCTACTATATTTCAATGCATCATGCTTGTAAC
AGGCATTTCAATTTATAATAAGAAATGAGTTATTCATTTGTAAGCCGTTGAGTAATTTATCTACTATTCTTAAATG
GCATAATGTTAGATAATCTATTTGAATCACCTTTAATTACATGTCAGAATGCCTTAACCTAACCTTGACAA
AACAGAATCTTTGGTAGACGCGGTGGGGGCGGGGTGGGGGGTCTGGACGGAGTCTCTATTTAAGGAGAAATCAT
CATGCTATGATAAAACACAGAAGCATGAGTGGCAAGTGGCGGGGTATTTATTTTGACAAACTATTTGCAGTCTC
TGTGATTTAAAAAGTAAAGAAAGTTGCATCCAGAAGGGTTTTGTTAGAATGAATACATTTATATTAGGACTGAC
AACTTCAGCTCTTTTGTGTTAGGTTTTCAATTATTTTTGGTAAGAGTATGTAGCCTTATGATCTGGATATATTTG
CATTCAATTTTCCACGCTACATTTAATTCCTGGTAAGAGCAGTGCTCGTCAAGTTTCTGGTTTTCTCTGCTCT
CATTTAACCCGTCAAACACAATCTTTGTAAGCTAGATTGGTGGTGTGTTTATACAACCTATTTACTCAGCTTACC
TTTTTGAGAAACGATTGTTAGAAATTGACGATGTGTTTGTTCAGTGATACTGAAAGTAGTGGGGCAAGAATTG
AGTTTCACAGTGGAATTGGCTTTGGATCTGGCCTATAGATTAGTGACATAAAATATTTTCTCTATTTCCCTGT
TCTTTTGTGTTATGCACTTAATTTTATGACTGCCGGGGGGGTGAGCTGGAGTGCTGCTTAACAAGTATCTCTCC

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FIGURE 1613B

TACTCTCAGTGGTCAGAGGCTGTGTTGGACCCATAGTAGAATTTTCCAGGTCACAGACCCAAGCTTCCATGGGTT
GTTACTGTGCTGTACCACTTGGTGGGTCTGATTCTGAACCTGATGTGTGTGTTAATTATATTTAAGCAACACAC
ACGACACACACACGCCTCATGTAATGGACTTTTATAACAAAAGAAAAAATTTGGATTTCTAATTTACAAATGGCA
AATTATTTATCCCTCTCTGGATGCACCAAAGACCAGTAAAGTTTATAGCTTTTCCATCTATATTTATAAAGCAAT
ACTGTATTATAAAAAATCAATATTTTTATCACATGCTTGAAATTTTATTTTGTGTTTTAAAAATGTGCACTCTAA
ACATATCAGAACCTTATTTCTTCCTATGAACCTTAAGCTGCCTGCGCACAAAAAATTTACCAAATGGA
GATGCAGTAGAGTCCATAGGCTCTAAAACTAAAAGAAATGGGATGCAGGGGGAACAAGTTATTTGTCTGAGTT
ACTGTACTTGCTTGACATGGTTGTTGGGTACTAAATCACAAAAGAATCCATTCCAGGTATGCATGTCTGGGGGTT
GGGCTGTGCTAGATTAGAACTGGGTTTCAAGCTTTGCATGATGGGAGAGCGTCTCTCCTCTATCAGCTGCGT
GTGTTCTGGATAGGACAGTAGCCCGGAGATGGAAACCACCTTCAGTACCATTAGCCCACCATACCAAGTAACAAG
TTAGGCAGGAATCGTGGAATTTATTGAGTCAGCTTTGAGTGTGTTGAGAGAATGTAAACAAGATTGGCTCGAATT
GTAAACGTTTGACTTTGGATGAGTTTCATGGTTCTTTAGGTCACCTTAATACCAGCTATCTTTGGTAGAAGCTAC
AGCATTGAGTTTCTCTGGAACTGTATCACATTTTGCATTTTAAAAATTTTACAGTATCAAAAAACCAAATCT
GCTTATGAAACAAAACATGAAGCAGGACATATTTGGATTCTATTTATTTAAAAATTAAATTCTTTGCAAAATTGAA
CTTCTCAACTAAAACGTGTCCATGTCAGAATTTTAACTGTTAGCAGGTAGTTTGTGGCAAAGATGGCTAAATAAT
GAAGCAAAATTAGAATCTGTGTGTATACTAATGAGCTGCTTTTTTCTGTTGAGACTATCATTATTTGCTTATTA
CCCAAGAGGCAATTACCTGAATTTGGATGTCTGAATTATAACTTATGCAGGAATAGTTCTGTAAATACATTTAAA
TAACTGTAAAGATATTTAATAAATATAGTATTTATACTAATCTGTGTGCTTCTTTGGTTTGAATAGTAACATA
ATGAGACACCAGCCCTTGACATTGAGTTTGTGGTCACTATCAGGTCTCATTTCAGCCTCTAGTCATTCTA
GCAGTATTATATGCTGCTACTTTAACTGGCTCCAGCTGCTTCACTACATCAGTTT

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FIGURE 1614

TGPEHASGAEDCGGGQAAACSRDFSWAEAEPPLLTSLWLRCARLSACEAPRVGQGRRRPLRAALRSAPAAARLR
LRREPAPGLRVLLPRPPASSGGRRRLRTGDRPAAASGRTSRKGLLKKGACYGDDACFVARHRSADVLGVADGVG
GWRDYGVDPSQFSGTLMRTCERLVKEGRFVPSNPIGILTTSYCELLQNKVPLLGSSTACIVVLDRTSHRLHTANL
GDSGFLVVRGGEVVHRSDEQQHYFNTFFQLSIAPPEAEGVVLSDSPDAADSTSFDVQLGDIILTATDGLFDNMPD
YMLQELKKLKNSNYESIQQTARSIAEQAHELAYDPNYMSPFAQFACDNGLNVRGGKPDITVLLSIVA EYTD

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FIGURE 1615

GGGCTTATGAGGTCAATTGGAAATAAGAACACCATTTTACTGGGTCTAGGATTTCAAATATTACAGTTGGCATGG
TATGGCTTTGGTTCAGAACCTTGATGATGTGGGCTGCTGGGGCAGTAGCAGCCATGTCTAGCATCACCTTTCCT
GCTGTCAGTGCACCTTGTTTCACGAACTGCTGATGCTGATCAACAGGGTGTGTTCAAGGAATGATAACAGGAATT
CGAGGATTATGCAATGGTCTGGGACCGGCCCTCTATGGATTCAATTTCTACATATTCCATGTGGAACCTTAAAGAA
CTGCCAATAACAGGAACAGACTTGGGAACAAACACAAGCCCTCAGCACCACCTTTGAACAGAATTCATCATCCCT
GGCCCTCCCTTCCTATTTGGAGCCTGTTTCAGTACTGCTGGCTCTGCTTGTTCCTTGCTTATTCGGAACATACC
AATTTAAGCTTAAGGTCCAGCAGTTGGAGAAAGCACTGTGGCAGTCACAGCCATCCTCATAATACACAAGCGCCA
GGAGAGGCCAAAGAACCTTTACTCCAGGACACAAATGTGTGACGACTGAAATCAGGAAGATTTTTCTATCAGCAC
CCAGGTCTTAGTTTTACCTCTAGTTCTGGATGTACATTCCATTTCCATCCACAGTGTACTTTAAGATTGTCTTA
AGAAATGTATCTGCATGAACCTCCGTGGGAACATAAGGAAGTGGGAACCTAGAACAGACAGTTTTCCAAAGATGT
TACAATTTCTTTTGAAAAACCCTTTGTTTATTAGCACCAATTTCTCGCCACTAAGCTATTTGTTTTATTATACAT
CCTTTAATTAATAAACTATATATGTAACCTCTTAGATATTAGCAATGTCTCTGCTACCATTTCCCTAAGGTGTTG
AGCTTTAAGCTCTATGCTGACTCAGTGAGACACAGTAGGTAGTATGGTTGTGGACCTATTTGTTTTAACATTGTAA
AATTTTGAGTCAGATTTTAATATTGTAAAATCTTGGGTCAAATAATTCAAAGCCTTAATGCAGATGCACTAAAC
AAAGAAATGGTAAATGAATTGTTTGCATTTAAAAAATAAACTCTTAAGAAACTGTACTAAATCTGAATCATGT
TTTGAGCTTGTTTGCAGTACTTTTAAACATTATTCCTACTGTTTTTGAAGTGAGAAAGTATCAGCCATTTAGCA
TTTAAGTTGGGGTATTTAGAGCCTGTAATCTAAATGCTGGCTCAAATTTATTCCCCAGCTACTTCTTATACCACT
ATTCTTTTAATGTTTGCATAATCATAAGCACCTCAACACTTGAATACATAATCTAAAAATTATATAGTAAAGCTG
GTAGCCTTGAAAAATGTCAGTGTGATATCTATTATGTAGATAAATATATATAGTGGCCTTTTCAGGACTGTCACAGT
AACACTTTAATTTACAGAGCTAATGTTTGTCTAAATTTTCAGGACCCTAGAGGAGAGCTTTATACAATTACCGAT
GTGAATTTCTCTAAAGTGATATTTTTGTGTCCAGTTATATTATTTAAAAAAGTGTTACTTTGTAAAAATTGTAT
ATAAAGAACTGTATAGTTTACACTGTTTTCATCTCGTGTGTGGTTATTGCTTAATGCTTTTTAACTTGAACAC
TCACTATGGTTAAATAAGGTCTTAAAAGAAATGTAAATATTCTGTTAATAAAGTTAAATATTTTAAATGATTTTT
TTAAAAAATAAAAAAAAAA

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FIGURE 1616

TCATGGCCGGCTCCTACCTGAAGGTGCACCTGCAATCCTCGCCGATAAGAGGCAGCAGTTCGGAAGCCGGTTCC
TGAGCGATCCGGCGCGGGTCTTCCACCACAATGCCTGTTGATTATGAGATCAATGCCACAAATACTGGAATGAC
TTCTACAAAATCCACGAAAATGGGTTTTTCAAGGATAGACATTGGCTTTTACCGAATTCCTTGAGCTGGCACCT
AGCCAAAATCAAATCATTGAAGGATTGGTTCTTGGAGAACAAGAGTGAAGTATGTGAATGTAGAAAACAATGAG
GATGGACCTGGTTTAATAATGGAAGAACAGCACAAAGTGTCTTCTGAAGAGCCTTGAACATAAAACACAGACACCT
CCTGTGGAGGAGAATGTAACTCAGAAAATTAGTGACCTGGAAATTTGTGCTGATGAGTTTCTTGGATCCTCAGCC
ACCTACCGAATACTGGAGGTTGGCTGTGGTGTGGGAAACACAGTCTTCCAATTTTACAAACGAACAATGACCCA
GGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATATGATCCT
TCTCGGTGTTTTGCCCTTTGTTTCAGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAGTCTTGAT
ATTATCATTCTCATATTTGTTCTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCTGAGCAGG
CTTCTGAAACCTGGGGGGATGGTACTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTTTAAAAAA
GGTCAGTGTCTATCTGGAATTTCTATGTGAGAGGTGATGGAACCAAGAGTTTACTTCTTTCACACAAGAGGAACTG
GACACGCTTTTCACCACCTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGACCGCCGACTGCAGGTGAACCGAGGG
AAGCAACTGACAATGTACCGGGTTTGGATTCAAGTCAAAATACGCAAGCCCCTTCTGTCCAGCACCAGCTAAGAG
GCACCTGCTGCCAACACGATGCAAGCCCGTTGTGTTTCCGAGCTTTTTTAAAAAAAATTTGTAGCACCGGGCA
TGGTGATGCCTGTAATCCCAGCCACTCAGGAGGCTGAGGCAGGGAGGATCCATTGAGCCCAGGAGTCCAGCCTG
GGCAAAATAGCGAGAGACCCTGAATCTGAAAGTAATGATAAAATAAAAAGAATATAAATGAGGTCTCGTTGATGC
TGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAATTATG
CTTCATATTTGTGAAGTCCTTTAAAAACATAATTTCTCAAGTTCTTTCTTTGAGACCTCAATCTGTCTTAGCATT
TTGTAACATAAAGTGAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGAAAAAG
TGTTATATATGACAAGTGTTTTTTGATTGTAATTGCGTTAAATCTTTTGAGAGTGTAATGCCGGGCTAGGCAAT
TGCAGTTAATACATACAGGGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCAGATCA
GATATTTTCTTGAC

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FIGURE 1617

MPVDYEINAHKYWNDFYKIHENGFFKDRHWLFTEFPELAPSQNQNHDKDWFLNKKSEVCECRNNEDGPGLIMEEQ
HKCSSKSLEHKTQTPPVEENVTKISDLEICADEFPGSSATYRILEVCGVGNTVFPILQTNNDPGLFVYCCDFS
STAIELVQTNSEYDPSRCFAFVHDLCDDEKSYPVPKGSLDIIILIFVLSAIVPDKMQKAINRLSRLKPGGMVLL
RDYGRYDMAQLRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTMYRVWI
QCKYCKPLLSSTS

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FIGURE 1618

CATGCTGAAAGCAGGGCGGGACCGGGCGGTCTTCCAGCAGGGAAAATGGCGCTGGCCATGCTGGTCTTGGTGGT
TTCCGCGTGGTCTGCGGCCCGGGAGTGCTTCGAAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCG
GCCGGGCTTTCCAGTCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCCAGCCATGTTTACAGAGCCAGCAAA
TGATACCAGTGGAAGTAAAGAGAATTCCAGCCTTTTGGACAGTATCTTTTGGATGGCAGCTCCCCAAAATAGACG
CACCATTGAAGTTAACCAGGTGTAGGAGAAGAAATCCGCAGAAGCTTATTAAAGTTAAGAACAACATAGACGTTTG
TCCTGAATGTGGTCACCTGAAACAGAAACATGTCCTTTGTGCCTACTGCTATGAAAAGGTGTGCAAGGAGACTGC
AGAAATCAGACGACAGATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGTGTGTA
CACAGGAGAGACACCGTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAGCGACCATCCTGGTT
CACCCAGAATTGACACCAAAGATGTTAAAAGGATAACTTCACAGTAAATCATTCTCCTGAAATAGAGGAAGATT
CTTTACGTGTTGTGCTTGTGTTTTTAAATCATCAGTATAGTTTAAACACATTCTTTCTAAGCAGTTTGTGTGGGAT
AATTTGAAGAATATATTATGAGTAAACTCCGAAAATTTTGTGTTATCCAAAGGCTCAATGGATTATGTTTCTATTA
TATACAAGGTTTTTAAGTAAACATAAAATTTCCAGAACAAAAATAAAAAATTTAAAAATTCATAGCAAAAAAAAAA
AAA

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FIGURE 1619

MALAMLVLVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPWPWGPALAVQGPAMFTEPANDTSGSKENSSLLDSI
FWMAAPKNRRTIEVNRCRRRNPQKLIKVKNNIDVCECGHLKQKHVLCAYCYEKVCKETAETIRRQIGKQEGGPFK
APTETVVLTYGETPSEQDQGKRIIERDRKRPSWFTQN

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FIGURE 1620A

CTCGGGCAGAGCGCTAGGGCTCCGAGCGAACCAGCGAGCGAGCGAACGAGCGGGCGCTCGGCGGGNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCGCGCCGGGCGAGGCGGGCCCGTCCGGGAGCGGGCTCCGGGGAAG
GGGTGCGGGTCTGGGCGCGGAGCGGGGAGCGGGGCGCGTCCCTCTCAGCGCCAGCTCTACTTGAGCCCCACGA
GCCGCTGTCCCCCTGGCGCGCTCGGGGCCGCGGACGGGCGCACGCCGCTTCTCCTAGTCAAGTATCCGAGCCG
CCCCGAAACTCGGGCGGCGAGTCGGCCACGGGAAGTTATTCTCCGGCTCCTTTTCTAAAAGGAAGAAACAGAAG
TTTCTCCAGCGGACAGCTTTTCTTTCGCTTTTGGCCCTGTCTGAAATCGGGGGTCCCCAGGGCTGGCAGGC
CAGGCTCGCTGGGCTCCTAATCTTTTTTTAATTCCAATTTTGATTGGGCCGTGGGTCCCCGTGAGCTCCGG
CTGCGCGCGGGGCGGAGGGCGCGCGCAGGGAGGGACCGAGAGACGCGCCGACTTTTAGAGGGAGGGATCGG
GTGGACAACCTGGTCCCGCGGCGCTCGCAGAGCCGGAAGAAGTGTGTAAGGGACGCTCGGGGACGCTGTTCTCT
GAGGTGTGCGCGCCTCCCTGTCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGG
GCGGCCGCGGACGAACGAGCGCGCAGCAGCCGCTGCGCGGCCGCGGAGGGCGGGGAAGAAAAACCCCTGT
TTCTCTCCGCCCCCACCAGCGATC**ATGT**ACAGGATTATCCCGGGAACCTTGACACCTCGTCCCGGGGACGCA
GCGGCTCTCTGCGCACGCCGAGTCTACTCCAGCGGCGCGGCCAGCAGAAATCCGGGTAGATATGCTCG
GCTCAGGCAGTGCATTTCATCCCCACCATCAACGCCATCAGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCA
CAGTGATCACCTCCATGTCCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCT
CTGGACACATGGCCCTCCCAAGACCTGGCGTGTCAAGACCATTGGCACCCCGTGGGCGCAGGAGGAGATG
AGCAGCTGTCTCTGAAGAGGAGGAGAAGCGTGCATCCGGCGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCC
GGAACCGACGCCGGGAGCTGACAGAGAAGCTGCAGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTACGGCCTGC
AGAAGGAGATTGCTGAGCTGCAGAAGGAGAAGGAGAAGCTGGAGTTTCATGTTGGTGCTCACGGCCAGTGTGCA
AGATTAGCCCCGAGGAGCGCCGATCGCCCCCAGCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGG
GCGCTGTAGTGGTGAAACAGGAGCCCTGGAAGAGGACAGCCCTCGTCTCTCGCGGGGGCTGGACAAGGCC
AGCGCTCTGTCTCAAGCCCATCAGCATTGCTGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCATCTGTGG
TGACCTCCACACCTGTCTGCTACTCCGGGACCTCGAACCTCGTCTTACCTATCTAGCGTCTTGAGCAGGAGT
CACCCGCATCTCCCTCCGAATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACT
CCTTGAACCTCCCCACTCTGTGGCTCTGT**TA**ACCCAGTGCACCTCCCTCCCCAGCTCCGGAGGGGTCTCTCTCG
CTCCTCTTCCAGGGACCAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGA
GCTTCTGGCTCTGGGGGACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCC
ATGGGACCTCCTCCCTCATCTCTGCAAGCAAATCCATTTCTTGAAAGCCTTGGAGAACTCGGTTTGGTAG
ACTTGACATCTCTCTGGCTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCCTGTCCCTTTGTTACCATACTGT
CTCTGGAGTGATGGTGTCTTCCCTGCCCCACCACGCTAGCTCAGTGCCCTTTTGGTTTACCTTCCCTCGACTTG
ACCCCTTCCCTCCCCAGCGTCAGTTTCACTCCCTCTTGTTTTATCAAATTTGCCATGACATTTTCATCTGGGTG
GTCTGAATATTAAAGCTCTTCATTTCTGGAGATGGGGCAGCAGGTGGCTCTTCTGCTGGGGCTGACTTGTCCAGA
AGGGGACAAAGTGCAATACAGAGCCTTCCCTACCCTGACGCTCCAGTCATCATCTCCAGAATCCAGCGGGG
CTCCCTGAGCTCTCAAGGAGATGCTGCCATCACTGGGAGGCTCAGAGGACCCTTCTGCCCACCTTCGGAGACGG
CTTCTGGAGGAACGGCTTGGCCAGAAGACAGGGTGTGAGTGAGACAGTGGGGCACAGGTTGGGTTTGCCAAACGC
CTAATTACCAGGCCAGGAAGCATGCCAACAAAGCCACAGGGTGTCTAGCCAGCTTCCCTTACCTGGTGTCTT
GAGTAGGGCGTCTCCTGTAATTACTGCCTTGCCATTCTGCCCCGGACCCCTTCTCTCCGGACCAGGAGGCGTCC
CTCCCTAGGAGCCACACATTATACTCCAAGTCCCTGCCGGGCTCCGCCTTTCCCCCACCCTGGCTCTCAGGGTGA
CGCCACCCACAGAGATTTAATGAGCGTGGGCTTGACCTTCCCCAGATGCTGCCAGGCAGCCCTCCCCAAGCCT
CAAAGAAGCATTGTCTGAGGATGGAGAGGCAGGGGAGGGAGGCGGAGGCGTCACTGGAGTGGCGTCTGCAGCA
GCTGCTGCCCCAGCACCCGCTCAGCCTGTCTGGCTGCTCACCTCCCCGAGGGCACCGGGCCTTTCTGCCCCC
TGTGGTCACTGCCCACCTGCTGGATCAAGTGCTTTCTCTTTTACACTCCCTGTCCCCACCCAGTGCACCTTCT
TGGCCCAGGCGGCAAGCAAGCTGTGAACAGCTGGCCTGAGCTGTGCTGTGGCTTGTGGCTCATGCGCCATTCT
GGTTGTCTGTGAATCTTTCTGGCTGCTGGAGTTGGAGATAGGATGTTTTGCTTCCCACTGCAGGAGAGCTGCCC
CCTTTACGGGGTTGGGAAGGGTCCCCCTGGCCTCCAGCAGGAGCACAGCTCAGCAGGGTCCCTGCTGCCACC
CCTCTGAGCCTTTCTCCCCAGGGTATGGCTCCTGCTGAGTTTCTGTCCAGCAGGGCCTTGACAGGAATCCAGG
GAGTAGCTCTGGCCAGAACCAGCCTCTGCGGGGCTGTGCTCTGCAAGACTCTGCTGCTGGGGATTAGCTCT
AGAGGTACAGTATCTCTGTTTGAAGATAATTAAGATCCCCCGTGGAGAAAGCAGTGACACATTACACAGCTG

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FIGURE 1620B

TTCCCTCGCATGTTATTTTCATGAACATGACCTGTTTTCTGTCAGTACACACAGAGTGAACAGCCGTATGCTT
AAAGTACATGGGCCAGTGGGACTGGAAGTGACCTGTACAAGTGATGCAGAAAGGAGGGTTTCAAAGAAAAGGAT
TTTGTTTAAAATACTTTAAAAATGTTATTTCTGTCATCCCTTGGCTGTGATGCCCCCTCTCCCGATTTCAGGGG
CTCTGGGAGGGACCCCTTCTAAGAAGATTGGGCAGTTGGGTTTCTGGCTTGAGATGAATCCAAGCAGCAGAATGAG
CCAGGAGTAGCAGGAGATGGGCAAAGAAAAGTGGGGTGCAGTCTCACAGGGGTAATCATCTCAAGTGGTA
TTTGTAGCCAAGTGGGAGCTATTTTCTTTTTTGTGCATATAGATATTTCTTAAATGAAGCTGCTTTCTTGCTTTT
TATTTCTAAAAGCCCCCTTATACCCCACTTTGTGCAGCAAAGATCCCCGTGCAGGTACAGCCTGATTGTGGCC
AGGCTGGACAAATTCCTGAGGCACAACCTTGGCTTCAGTTTCAAGCTGTGTGGTGTGGGACCAGCAGA
AGGCAAACGTCCAGCCAACACACAGGACTGTAAGAGGACTCTGAGCTACGTGCCCTGTGAAGACCCCCAGGCTTT
GTCATAGGAGGTCGTTACGCTTCCCCAAAGTCAGAGGTGATTGATTTGGGGAAGACTGAATATTCACACCTAAG
TCGTGAGCATATCCTGAGTTTACTTCCCTTATGGCTTGGCCTCCAAGTTCTCTCTCATACACACACACCCCT
TGCTCCAGAATCACCAGACACCTCCATGGCTCCAGCTATGGGAACAGCTGCATTGGGGCTGCCCTTCTGTTTGGC
TTAGGAACCTTCTGTGCTTCTTGTGGCTCCACTCGCGAGGCAGCTCGGAGGTGTGGACTCCGATTGGGCTGCAGGC
AGCTCTGGGACGGCACAGGGCGGGCGCTCTGATCAGCTCGTGTAAACACACCCGCTTCTTGGCCTCTGGCCAG
TCTTTCTGCGAATAGTCCCTCTCCCTGGCCAGTTGAATGGGGGAAGCTGCTGGCACAGGAAGGACAGGCTCCCG
GCTGAGGCTTAGGAAATTGCTGGAGCCGCTCCAAGCAGATAATTCAGTGGGAGGTTTTTCAGAGTCAAACATCA
TTCTGCCTGTGTTGGGGGCCAGGTGTGTACACAAGCATCTCAAAGTCAAAGCCATCTGGGGCTGCTGCTTCTC
TTTCTCAGGCTCTGGGGAAGGAATCTCCCTCTCTCTCAGTTGATTCCAAGTGTGGTTGAATTGTCTGGAGCAC
TGGGACTTTTTTCTTTTTCTTTGATGGACCAACAGTGCAAATGCAATCTCGCCATTAACTTTCAGGTGCGATT
TCCTTTCTGATCAGACATCTTTGTGCCCCCTTTAGGAAGGAAAAGAATACACCTACGATGTGCCAGGCACTGTG
TTAGGCGCTTTTATATAGATCCTCGTTAGGATGAGACTAAGGGATGAGGACATCTCTTTATAAAGGCCCTAAG
TAATGGATAAACAGAAACACTTAGAGGTGAGAAGGTCTGTCTTCAAGATCCAAGGTAAGATTGCCCTTCAGTCTGA
TGTTTGTCTCAAGGACTTATCCCTACAATATTCTCCCACTCCATACTTCTCTTCTACCCACCATGTGCTCC
CGTGCACTCCTCAGATGGTCAGAGGGGTAACCCAAGTCTTAGAGAATTTGGGGACCAATAGAATATGTGATGTG
TGAATTTCTTTAAAAAAGTAAAGGAGTCTTTGTACCTTCTGCTTGTGAGTTGTTTTGGCATTCAATATAAAA
GCCAGCATCTCACTATTTATTGACAGGTTGGGCTGTGTGTGTGCGCATGTGTGTATACATTTCCAGGCGTGCCTG
TGTCTGTAGCTTTTTAAAAAGGAAACCCAGTCATCCCACTATGAATCTGGCATCTTCTTATGCTTCTAGTGTGTTT
GGCCATACATCAACCAAGGGGTTAATTTATCCAATGCTTGACGACATGTTCAAGGAGGGGCTGGATCAAATTTTG
AGAGGGTTATGGGAAAGGGAGGGGAGAAGAAATTGACATTTATTTTATTATTTTAAATGTTTACATCTTC
TTTATGTTGTATCAAGCCTGAATAGAACTGATAGCATTAAATACTCCGTTCTCTCTCTCTCTCTGCTTCTCTT
TTTTTTTTTTTTTAAATTTAGGATAACACATTTTGTGTTCTAAAGTGATTGTGATTGTGTGTATAACTGTA
TAAAGGTTCTGTTTTTAAAGGTGGATTTTCATTCTCTGGGGACAGTGGTCGCCAAGACATCTACATTGTAAGA
GAACACAGTGAAGATCCTGTCTGATTCTCAAAAATTATTTCTCTGTATGATTAAAGTTTATTCCATTTATT
TTAGTTGTGTTTACTTGATTTTGAGGAAGAAAATATTTGACTTTGTGTAAAGAGTAGGGTATCAGGGTGTCTTT
TCTGCGGTGGGAGATGTGTATATATATAGTATTTTGGGTGTATAGTAGAAAATAAGCTTTGTGCATCTGTATTGA
GATATGTTAATGACGTGGAGTAAAGTCAGCTGTAAGACTCTGGAGGCAAACAAGTTGTATATGGTTCATATGGCT
CTATGGGGAATTTAATTACCTTTCTGGGCACTTTTCTTTTTTTTTTTTCTTAAGTAATGGTGAAATGGTCCCAT
TGGAGAGTCTCCTAAATAGACCTTCCAGGCAGAACCGCAAGCTCAAAATCTTTGTATAGTTTTGAAAATTGAGGA
GTAGCTTTGTTTGGAGCCTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTTGTTTTACTATATGTAATA
CAAGCCTACAGTATTTGCACTAAAGAAAGCTTGTTAGAAAAAGCTTGCTGCTATGGAAGAAAGACATATTAATA
CTCTTTCCCTTGCATTTTTTTGGGNGAGGGGGTTAGCATTTCCACTTTCAG

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FIGURE 1621

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMFGSGSAFIPTINAITTSQDLQWMVQPTVITMSNP
YPRSHPYSPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPREEEKRRIRRERNKLAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVISTPAVTPGTSNLVFTYPSVLEQESPASPESEC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1622

CTGAGGCAGGGGTCTCTGGGGGCGAGGAGGGCGCGCTGCCCTCTGCCCCCGCCGGCACCCCTGGCCATGACAGGCA
AGTCGGTGAAGGACGTGGATCGGTACCAGGCTGTCTGGCCAACCTGCTGCTGGAGGAGGATAACAAGTTTTGTG
CAGATTGCCAGTCTAAAGGGCCGCGATGGGCCTCTTGGAACATTGGTGTGTTTCATCTGCATTTCGATGTGCTGGAA
TCCACAGGAATCTGGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTCGACCAGTGGACTCAAGAACAGATTCT
AGTGCATGCAAGAGATGGGAAATGGAAAGGCAAACCGACTTTATGAAGCCTATCTTCTGAGACCTTTTCGGCGAC
CTCAGATAGACCCAGCTGTTGAAGGATTTATTTCGAGACAAATATGAGAAGAAGAAATACATGGACCGAAGTCTGG
ACATCAATGCCTTTAGGAAAGAAAAAGATGACAAGTGGAAAAGAGGGAGCGAACCAGTTCCAGAAAAAAATTGG
AACCTGTTGTTTTTGAGAAGGTGAAAATGCCACAGAAAAAAGAAGACCCACAGCTACCTCGGAAAAGCTCCCCGA
AATCCACAGCGCTGTTCATGGATTGTTGGGCCTTGATGCTCCTGTGGCCTGCTCCATTGCAAATAGTAAGACCA
GCAATACCCTAGAGAAGGATTTAGATCTGTTGGCCTCTGTTCCATCCCCTTCTTCTTCGGTTCCAGAAAGGTTG
TAGGTTCCATGCCAACTGCAGGGAGTGCCGGCTCTGTTCTGAAAACTGAACTGTTTCCGGAGCCAGGGAGCA
AATCAGAAGAAATAGGCAAGAAACAGCTCTCTAAAGACTCCATTCTTCACTGTATGGATCCAGACGCCCTCAAA
TGCCCTACTCAAGCAATGTTTCATGGCTCCCGCTCAGATGGCATATCCCACAGCCTACCCAGCTTCCCCGGGGTTA
CACCTCCTAACAGCATAATGGGGAGCATGATGCCTCCACCAGTAGGCATGGTTGCTCAGCCAGGAGCTTCTGGGA
TGGTTGCCCCCATGGCCATGCCTGCAGGCTATATGGTGCCATGCAGGCATCAATGATGGGTGTGCCGAATGGAA
TGATGACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGTATGGGGTCCAGCCAG
CTCAGCAGCTGCAATGGAACCTTACTCAGATGACCCAGCAGATGGCTGGGATGAACCTTCTATGGAGCCATGGCA
TGATGAACCTATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAAATCAGACTCTCAGTCCTCAGATGTGGA
AATAAAAAACAAAACACCTGTATGGCTGCCATTCTCTTCAGCCCTCGCTCTCCCCTTTCCACAGCCTCCACCCCTG
ACCCCATCCTCTTTTCTACCTCTCTGTTTGGTTTGAATAATGCTCAATAAGTCATTGGGGTTTGGCATCCTG
CCCAGCCACTTCCCAAACATGAAGACCTCTCTGTTGCTTTATGTTGTACATGCCCCATAGCCATCCCAACGTCCT
CCCCAGTCCTCTCCTGGCACACGACCTTAGAAGTTGTTGGCAGAAGGCACTTAACTGTGGGAGAAGTGTGCAC
ACCTTTGAGTCCCTTCCCTCAAGGTTAAAGCTCCTGTCAGACTCTCAGAAGGGTCTGTGGGTGTTGTATATTAGG
CAAAACAGGGGAAAGCTTAGAGGTCCTTCTATATGTGTTAATAAGCTGTTTCTAAGTGTAAATTTGAAAAGCAT
CATGTTCTCATGATTTATGGGAATGAAGCAAGTACTGAAATCAAATTAATACTCCCTGGGTCTGGGTTCAGTTT
GACCCTAGCCCTGGGGTGAGGCAAGCCCCCTCCTATGAGGATGAGCAAAAATACTACTCTCTTCGCCCTGAGTTG
CTTTCTGGATCTGGGGCTTCAGGACTTGCTGCTTCAGTCAGCTTTTATTAGCACCAAAGACTTTATGAAGATCCC
ACACACAGACACACATCCCTTCCCGCCTCCCCCTGCCTTCAGTAGGATCTGGCTCCGTGGCTGGAGGACCAACC
CCTATAGTGGGAATGCAGAGCTTAACGTGTACTGCTTGTGTGTGTGCGTGAGTGTGTGTGTGTATGAGTGTGT
GTTCCGCCTCCACCCCTCTCCCCATCTGCTCTGGGTATTTTTGTTTTGTTTAGTTTTAGGTTTACAACAGAGAG
GAATTAATTTATCAGCAGCCTAAACTGTTGTGTTTTCTTATGGTTTAAAAACGCCATGTCATTGATAACTCC
CTTTCTCCCTTCCCTTCTCCCGTCTGCTGATCACTTTTCATGCCTGTGTATCCAGGGTGCTCTGTTTCCCCAC
CGTTCACAGGTGTACGAGGCAGAGGGCCGGGACAGCTTTCCTCTCAGTCATTGTTACCCCACTTGAAAATTCAG
ACAAGAAAACCTTTGCTTAAAGATTTTCATGTGTGGGAACACAGTTCTCGCTGCCTTTCTCCTGTGTATGTGTA
AATTCCTTAATAAATATTGCAGGGAAA

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FIGURE 1623

MTGKSVKDVDRIYQAVLANLLLEEDNKFCAQCQSKGPRWASWNIGVVICIRCAGIHRNLGVHISRKSVNLDQWTQ
EQIQCMQEMGNKANRLYEAYLPETFRRPQIDPAVEGFIRDKEYEKKKYMDRSLDINAFRKEKDDKWKRGSEPVPE
KKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASVPSPSSSGS
RKVVGSMP TAGSAGSVPENLNLFPPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSF
PGVTFPNSIMGSMMPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGVPNGMMTTQQAGYMAGMAAMPQTVYG
VQPAQQLQWNLTQMTQQMAGMNFY GANGMMNYGQSMGGNGQAANQTLSPQMWK

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FIGURE 1624

AAGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTC
AAAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCCGGAATACCAATAAAAAATT
GTGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAA
CCTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAACTGTTTCAGGTCCATTATCAAAACGAGCAAAATTT
GTTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAACAGGTGTAACCTATTAGTCAGGTGGATGAAGAA
ACGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGAT
GATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAATG
GTAAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTGATCAACGAAAGATTAAACATCCT
ACTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACCTTTGGACGTGACCCAGCCGATGGAAGAATG
AGGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTA
ATGGGAGAACCTATTTTACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTTAAAGAGAATTCTAGAATTCIAT
TTTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCATTGTGTAGATTTCTATATAATATAAA
TACATTTTAATTATTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1625

ATGGCGCCGAAGGTTTTTCGTCAGTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAGCCTACAGCACC
ACCAGTATTGCCAGCGTCGCTGGCCTGACCGCCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCCTT
GAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTGCAGCTGCTGTCGGGGCCGTGTTTGGCCTCACCACCTGC
ATCAGCGCCCATGTCCGCGAGAAGCCCGACGACCCCTGA ACTACTTCCTCGGTGGCTGCGCCGGAGGCCTGACT
CTGGGAGCACGCACGCACA ACTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCTCCCTGGTC
AAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAAACCCAAGGTG

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FIGURE 1626

MAPKVFRQYWDIPDGTDCRKYSTTSIASVAGLTAAAYRVTLNPPGTFLEGVAKVGQYTFATAAVGAVFGLTTC
ISAHVREKPDDPLNYFLGGCAGGLTLGARTHNYGIGAAACVYFGIAASLVKMGRLEGWEVFAKPKV

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FIGURE 1627

AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAGTGAAGTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACACG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGIGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCAGAG
TGTCGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
ATCCACAGGCAGTTGTGTTCCCAGCAATTCTCCCATCCTGCATGGTTCACACCAAGAGAACCTTCAGATCCTAC
CAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCCTCTTGCAAGTCCCCTTTGCCCATCCTTGAATGCACAGTCTCCCTGCTCATGCCCTTCA
GTCCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
CGGAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
GAGGGGCAGTGTGTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
CGGGCAAGCCTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAACTTTTTTG
GAGTAGGGGGTATAGGGGAATCATTTAATTTAAATCATTAGATTCCCCTGCTCAAACCCAGATTCTGTGTACA
GATGCTATTTAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACCTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAAGTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1628

MVEISLKS VISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRPLSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPKRPGATSI SRTASLPLLQSPICPS

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FIGURE 1629

GGAGGGAGAGGCTGAATGTTGGCTCGGTAATTGAGAGGAGCGGCCGCTCCAGAGCTTCCTCCCGGGGCGCCCCC
TCAGTCCGTCCGCGCTTCTCAGCCGCCAGTCTCCTGGCCGCGCAGTCCCCGCGGACGGCCGGGCGCGGAGACCC
TCGCAGAAGAGGCGCTGCCGGCGCGGAGGACTGGCCGGCGGCATCCGAGGCGCGCGCCCCACCGCCACCCCCACC
CGCCTGCCAGCCGGTCCCTCCGGCCGCCGCCATGTCCTCCTCCTCTTCTCCCCCAGGGAGACGTACGAGGAGGA
CCGGGAGTACGAGAGCCAGGCCAAGCGTCTCAAGACCGAGGAGGGGAGATCGACTACTCGGCCGAGGAAGGCGA
GAACCGCCGGGAAGCGACGCCCGGGGGCGGGGCGATGGCGGGCGGGCGGGCGGAGCTTCTCTCAGCCGGAGGC
AGGTGGAAGTCATCATAAAGTTTCTGTTTCACCCGTCGTCCATGTTTCGAGGACTCTGTGAATCTGTGGTGAAGC
AGACCTCGTGGAAGCGCTGGAATAATTGGGACAATATGCTATGTGATGATGATGCCATTTAAACGACAGGCTCT
AGTGGAATTTGAAAACATAGATAGTGCCAAAGATGTGTGACATTGCTGCAGATGAACCCGTGTACATTGCTGG
TCAACAGGCTTTTTCAACTATTCTACAAGCAAAAGGATCACTCGGCCAGGAAATACTGATGATCCATCAGGAGG
CAACAAAGTTCTTCTGCTCTCAATTGAGATCCGCTTTATCCAATTACAGTGGATGTTTTATATACTGTATGCAA
CCCTGTTGGCAAAGTGCAACGTATTGTTATATTCAAGAGAAATGGGATACAAGCAATGGTTGAGTTTGAATCAGT
CCTTTGTGCCAGAAAGCTAAAGCAGCACTCAATGGAGCTGATATATATGCTGGATGTTGCACACTAAAAATTGA
ATATGCACGGCCAACCTCGTCTAAATGTTATTAGGAATGACAATGACAGTTGGGACTACACTAAACCATATTTGGG
AAGACGAGATAGAGGAAAGGTCGCCAGAGACAAGCCATTTTGGGAGAACACCCTTCTTCGTTTAGACATGATGG
CTATGGATCCCATGGTCCATTATTGCCTTTACCAAGTCGTTACAGAATGGGCTCTCGAGATACACCTGAACCTGT
TGCTTATCCATTACCACAGGCTTCTCCTCTTACATGCATGGAGGAAATCCCTCTGGTTTCAGTTGTAATGGTTAG
TGGATTACATCAACTAAAAATGAATTGTTCAAGAGTCTTCAACCTGTTCTGCTTATATGGAATATTGAGAAGGT
AAAAATTTATGAAGACCATTCTGTTACAGCACTGGTAGAAATGGGTGATGAGTATGCTGTAGAAAGAGCTGTCAC
ACACCTTAATAATGTCAAATTATTGGGAAAAGACTTAATGTTTGGGTGTCTAAACAACATTTCAGTTGTTCCAAG
TCAAATATTTGAGCTGGAGGATGGTACCAGCAGCTACAAAGATTTTGCAATGAGCAAAAATAATCGCTTTACAAG
TGCTGGCCAAGCATCTAAGAATATAATCCAGCCACCCTCCTGTGTTTTGCATTATTATAATGTTCCATTGTGTGT
CACAGAAGAGACCTTCACAAAGTTGTGTAATGACCATGAAGTTCTTACATTTCATCAATATAAGTGTGTTGATGC
AAAACCTTCAGCCAAAACACTTTCTGGGCTATTAGAATGGGAGTGCAAAACTGATGCAGTAGAAGCCCTTACGGC
ACTGAATCACTATCAGATAAGAGTGCCGAATGGTTCCAATCCCTATACATTGAAGCTTTGCTTTTCTACATCATC
CCATTTATGAAGAGAAGAGCATGTTAGAATTTATGTTACCTTTATTACAATTTCAAAGCTACACTTCATTAA
AAAAAATCTAAAATGGTTGATCTCATGTTGCCTTGCTTACTTTAAGATCCTGTTCTGTAATAAACATATTTTGC
CTTGAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1630

MSSSSSSPRETYEEDREYESQAKRLKTEEGEIDYSAEEGENRREATPRGGGDGGGGGRSFSQPEAGGSHHKVSVS
PVVHVRGLCESVVEADLVEALEKFGTICYVMMMPFKRQALVEFENIDSAKECVTFAADEPVYIAGQQAFFNYSTS
KRITRPGNTDDPSGGNKVLLLSIQNPLYPITVDVLYTVCNPVGKVQRIVIFKRNGIQAMVEFESVLCAQKAKAAL
NGADYAGCCTLKIEYARPTRLNVIRNDNDSWDYTKPYLGRRDRGKGRQRQAILGEHPSSFRHDGYGSHGPLLPL
PSRYRMGSRDTPELVAYPLPQASSYMHGGNPSGSVVMVSGLHQLKMNC SRVFNLFCLYGNIEKVKFMKTIPGTA
LVEMGDEYAVERA VTHLNNVKLFGKRLNVCVSKQHSVVP SQIFELEDGTSSYKDFAMSKNNRFTSAGQASKNIIQ
PPSCVLHYYNVPLCVTEETFTKLCNDHEVLTFIKYKVFDAKPSAKTLSGLLEWECKTDAVEALTALNHYQIRVPN
GSPYTLKLCFSTSSHL

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FIGURE 1631

GGCGGGCGAGCAAGCGAGCGGCGTCTCCACCAGCATCTGCCGCGGCCGCCTTTGCCCGAAGCCCCGGGGACGAACC
GACGGACCGACCGCCTGGCGCACGGACGCGGGCGCTCGCTTTGTGTTGCGGGCTAGCGTCGGCGAGGCTTGAGCT
TGCAGCGCGGGCTTCCCTGCTTCTCGCGGCCACCCCGGCTCCGGCGGCCCTCGGCGCGCGAGGGCTGGAGGTG
CGGGAGCCGCTCTCCGCCGGTCGGTCCCCGCGCGGCTGAGCCCAGGCCGCCAGCGCCGCGGGCCCCGTGCGGTGTC
CCTGAGCTCCTGCTCCCCGCCGGGCTGCTCCGAGCAACGGTGTCTCGGAGCTCCAACTCGGGCTGCCGGGGCAA
GTGTCTTCATGAACCCAGAGGATGTCGGGAAGCACTACAAGGGTCTGAAGTCAGTTGTTGCATCAAATACTTC
ATATTTGGCTTCAATGTCATATTTTGGTTTTTGGGAATAACATTTCTTGGAATTGGACTGTGGGCATGGAATGAA
AAAGGAGTTCTGTCCAACATCTCTTCCATCACCAGTCTCGGCGGCTTTGACCCAGTTTGGCTCTTCTTGTGGTG
GGAGGAGTGATGTTCAATTTGGGATTGTCAGGGTGCATTGGAGCGCTACGGGAAAACACTTTCCTTCTCAAGTTT
TTTTCTGTGTTCTGGGAATTATTTCTTCTGGAGCTCACTGCCGAGTTCTAGCATTGTTTTCAAAGACTGG
ATCAAAGACCAGCTGTATTTCTTTATAAACAACAACATCAGAGCATATCGGGATGACATTGATTTGCAAAACCTC
ATAGACTTCAACCAGGAATATTGGCAGTGTCTGCGGGCTTTTGGAGCTGATGATTGGAACCTAAATATTTACTTC
AATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCTGCTGCACTAAAGATCCCGCAGAA
GATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAAGTTGACCAGCAGATTGTAATCTACACG
AAAGGCTGTGTGCCCCAGTTTGAGAAGTGGTTGCAGGACAATTAACCATCGTTGCTGGTATTTTCATAGGCATT
GCATTGCTGCAGATATTTGGGATATGCCTGGCCAGAAATTTGGTTAGCGATATCGAAGCTGTCAAGGCGAGCTGG
TAGACCCCTGCAACCGCTGCTGCAAGACACTGGACAGACCAGCTTTTCGGGACCTTCCGCGTGC~~CG~~GAAC TGAT
CTTCGAGCTGCATGGACCTAATCACAGATGCAGCCTGCAGTCTCGCCTAATGGAGCTGCCATTAGGGGAGTGTA
AACTGGGAAATGCTGCTCACTGACAGAATTAATAAAAAAAAAAATAACCAGTATGAAAGTCGTTGCCCGTGAATCTC
TACTGTAGCATGAATTTATGGACAGTTAGATGCTTACCAAAAAGAAAAAAGGGAGGGTAGGGACCCAGATG
TACTTGAATGTGCAGAAAAATACATTTCTGTCTCATCTTCCGTAATTGGAGGGCTGGGAGAGGCAGCTTTGCTCT
TCACCACACCTTGGACGGACACCTTCTTTCTGTCCATGGCCTGAAGGAGTGATCTCTCTCAAAGACTCAGCCC
CTCACCTGGGAGGGCAGTGGTTTGTGGGCATCCCTCCATGTACATTTTAGGAAACACTTGCAACTCTCATCTGAA
GAAGAAAACAACTCATCTTTGGGTTGAGATTTTGTGATGTTATTCAGCAAGTCACTTGGGCGAGCAGCTTGGTC
TATCTGGAAGTCTCCTTTATAAGAGAAGTTGTGATTTTCATGTGCACCGAGCAAGGGCATTGGAAGACGTCATG
AGGCTGTATTTTAGCAGGACTGATCGTTTTTTCTAAGTAGACCTGAGCTTTGTTTATCAGTGAAATTCAGGAGAA
AATGAGGTTAATGAAGAGGTATCAGTTAAATATCCCTTCTTCTCACCTGCCAAAATTAGCAGTTGGATTTTTG
GAAACTCTGGAATATTCTGGGTCATTTTGTGTTTGTATGTTTGTGTTTTCTCTTCCAAAGGTGAAAGCTATGA
TACAGTTCCACTTAAATTTTAGTGTTTTCTTACTCAGCTCAAGCATTAAATTTTGATTAGTCTTAATCTGCATG
ACCTGTGAATCTGAATCCATCATCTCCCTTCTGCCAGCTTTTCTACAAACATTGAAATATGTTATTTGGTCAG
CACTTATTTCTAGGTTTACAGCCTTGGGAGGTTGTGGCATGTCTCCAGTCTGGCTGGGAAGAGACCAGCTGT
ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCTCCCT
TCTTTCTCTTTGAATGGAATTAACCCAAATTTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTTCTTT
TTCTTCTCCAGTTTTAGTTTGCTTTTATTAATAAAGAAATAGTGCATGGCCATAGCTCCTTCACTTCTCTTA
TTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAGTACT
CTGTAACACAAAGTGGGAACCACTTCTGGTGTGCGGCTCTGCCCCACTTTAGGTGGGAGGGACGAGTTTT
GCCCTCTAGATTTTAAATCCAGCTGGTGTCCACCGGATGTTGCCCTCTGGGGAGCAGATATCAGTCTGTGGAAC
CTGGGAAAACCACAGGCACATTTTTCGGTGTGGGACAGATTGCCAGCACATAACTGGGCAGCCAGCTAGAATACT
TTGTGGAATTAAGCGAGGTTTTCCATTTTCAAGCCCCATGGTGCATGGTGGTGGCCGATGAATGTGTCAGTCTGCT
CAGAGAAAGGACAAAAGGAAATATTTTCAAACACTGTGTTCACTGTTTGGGTGTGTGTAIGGCTCTGCATGTGT
GTGTTTTTGTCTCTGTATAGGTAGAGGTATTCACATCTTACTCCGACTGTAAGGTTGTCTTACTTCATCTCTGCC
CCCACCACAGTTGCCATTTTGTAAATGTCTTCCAACATGGAGAAGACACGAGCTCTCTCAGTTGGCATCATTTG
TCTTTTTTGTGATTGCCTCATTCTCCAGTGAACCTCATCTGGCCAATTGATTCAGAATCAGGCAAGATCCCTGC
CCTTTGGCACATCCACTGAAAGGCCAAACAGCAAGTCCGAGTGAGTTTTAAATATTAATTAATCACCTTTATTT
TTTACACTTGAGAGTGATTGTAATAAAGGCTGTCATTAATAAACTTGTTCTACCTTAAAA

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FIGURE 1632

MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGVLSNISSITDLGGFDPVWLFLVVGVMFIL
GFAGCIGALRENTFLLKFFSVFLGIIFLELTAGVLAFFVKDWIKDQLYFFINNNIRAYRDDIDLQNLIDFTQEY
WQCCGAFGADDWNLNIYFNCTDSNASRERCGVFFSCCTKDP AEDVINTQCGYDARQKPEVDQQIVIIYTKGCVPOF
EKWLQDNLTIVAGIFIGIALQLQIFGICLAQNLVSDIEAVRASW

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FIGURE 1633

GGGAACCCACAGGCGCGCGCGCGCTGCTTCTGGCCGGGCGCGGGTTCGTGGTGCACCACGGGAGCGCCGCACCGG
CCGGCATGGAGGAGCGCGCGGATTCCGAGCCGACCCCCGGCTGCAGCGGCCTGGGTCCGGGCGGTGTTCCGGGCT
TTGGCGACGGCGGTGGAGCTCCTTCGTGGGCCCCTGAGGACGCCTGGATGGGCACTCACCTAAGTATCTAGAAA
TGATGGAATTAGATATAGGAGATGCCACCCAAGTTTATGTAGCGTTCTTGGTTTACCTGGACCTCATGGAAAGCA
AAAGCTGGCATGAAGTAACTGTGTAGGATTACCAGAACTCCAGCTCATCTGCCTTGTGGTACTGAGATAGAAG
GGGAGGGGTTACAGACTGTGGTGCTACCCCCATCACTGCTTCCCTCAGCCATAACAGGATAAGGGAGATCTTGA
AGGCATCTCGAAAGTTGCAAGGTGATCCAGATTTGCCGATGTCTTTTACTTTGGCCATAGTGGAGTCTGATTCTA
CAATAGTCTATTATAAACTTACTGATGGATTTATGCTGCCAGACCCTCAGAATATTTCTTTAGAAAGATGACATC
CATGTTTCTGATGCTTGTGTTTATTCATACAAGATTGGATTTGAGACCCATCAGACTGCTTCATCTTTTATCTCA
GAAATAGGGTTGACGTACATAGTGAGGGTTGACTTCCCCATTCCATAAGGTTTTTATTCTGAAGAGTAAACTTC
CCCAGGTAGAAGACTTTCTCCTTCTTAAAAAATATAGGGTGATTTCTTTAAACTTTGTTATCTAGAGACAGTTT
AATTACAGTTATATACAGGTTTATGCCTAGGATGTATTGAGATGGGTGGGACCTGTGTGCTGCTTTTGTCTATCCC
ACACTCAAAGTTGTCTCTTTGTTTCTTGTGCTGCCACTGCCAGCTCATTGTTGAGACTGCCATTTCTTTCTCTTACT
CAGCTCTCCCCAGTGCCTTTTGGCCACTGCAGCTACCGTAGAATGGCATTTTATATGTACCTTGTCAACCCACTTC
TGTTTACTTTTTCTCTCCAGTAAAAAGTAAAGATTTCTTTCAATTGGTCTTCCCATTCAGTTACTGTTATTT
CTCTTTTTTGGTTAACTTTAAATCAAACTCAAAATATGTTTCATCCAGAGTGTGTCTTAAGTAACCTTACGTGTCT
TAAGTAACAGGGACCAGAGACATGTTACCTACAAGAGTTCTGGGCTATCCTTTTCTTATCACATATCATAG
CTTGAATATTACAACAGTGTGGGAGAGAATCAACCGTAAAAATGTCTTCATTAAATTAGACCCAGTTATTCCACTT
TTGTTAATGTCTCTCAAATTGTACAAAGTATAAAAAATTATATGCACAAAGATGTTCCAAGTGACATTACTTTTA
GTAGCCCAAATTATAAACCCTTTAAAGTTTGGGGTAAAGATTGGCAAACCTTTTCTATAAAGGGCCAGAAAGTA
ACTATTTTAGGTTTTTAAACCTACTGTCTCTGTGCATAACTTGTCAACACTGCTGTATGAAGCACAAAAGCAGCCA
TAGACAATACATAAAACAATACGGGCGTGGCTTTGTTCCAGTAAACTTTGTTTACAAATGTGGTGCCATAGTTTG
TCATCCCTGGGTCTAGGAAATAGTCAATAAACAGATATATACAAATGATACATAATGTACTTTATAAAAATTAGT
AATGAATATTATTAAAAACATGAAAATATTACCTTAAGTAAAAATTGCAAGACGGAAAAGTGATAAGTGGGTGT
AATCATGGCTGAAATAACAGACCAAGCATATGATAAAAAGATAACAAAGTAAATCAAATTACTAAGTGGTTATAG
TGGGATAGGAGGCAGAAAATGGATGACTTTGTCTTTTCTCAATGTTTTTATTGTTTATAATAAAAAATGTTT
TAAAAATTAAAA

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FIGURE 1634

GTCTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGA
GGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCCGGG
AAGGGGCTAGGCCGGCTTGAAAAGAGCTGGAACACAAGAAGTGTGTTTAAATGAATGACGTACACATTTAAGAT
CTGTTTGGACGCGGAGGATAATCCTGTGAATTGCTAATAGTTCACGTTGGGTTGGCCCTTAGTGTTGACTTCAGTA
TGCTGAGACGGAAACCAACACGCCTAGAGCTAAAGCTTGATGACATTGAAGAGTTTGAGAACATTCGAAAGGACC
TGGAGACCCCGTAAGAAACAGAAGGAAGAATGTGGGAAGGTTGTAG

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FIGURE 1635

GC GCGGACCTTTCAACAAGGGCTTTATTAATTCTCAGCTGCGGCCCTGGAAAGCGATGGAGGTGGCGGCTAATT
GCTCCCTACGGGTGAAGAGACCTCTGTTGGATCCCCGCTTCGAGGGTTACAAGCTCTCTCTTGAGCCGCTGCCTT
GTTACCAGCTGGAGCTTGACGCAGCTGTGGCAGAGGTAAAACCTCGAGATGATCAATATACACTGGAACACATGC
ATGCTTTTGGAAATGTATAATTACCTGCACTGTGATTTCATGGTATCAAGACAGTGTCTACTATATTGATACCCTTG
GAAGAATTATGAATTTAACAGTAATGCTGGACACTGCCTTAGGAAAACACGAGAGGTGTTTCGACTTCTACAG
ATTTGACAGCATGTGACAACCGTCTTTGTGCATCTATCCATTTCTCATCTTCTACCTGGGTACCTTGTGAGATG
GAACTGGAAGATTGTATGTCAATTGGAACAGGTGAACGTGGAATAGCGCTTCTGAAAAATGGGAGATTATGTTTA
ATGAAGAACTTGGGGATCCTTTATTATAATTCACAGTATCTCAGTCTAAATGCTGAAGAACATTCTATAGCTA
CCCTACTTCTTCGAATAGAGAAAGAGGAATTGGATATGAAAGGAAGTGGTTTCTATGTTTCTCTGGAGTGGGTCA
CTATCAGTAAGAAAAATCAAGATAATAAAAAATATGAAATTATTAAGCGTGATATTCTCCGTGGAAGTCAGTGC
CACATTATGCTGCTATTGAGCCTGATGGAATGGTCTAATGATTGTATCCTACAAGTCTTTCACATTTGTTTCAGG
CTGGTCAAGATCTTGAAGAAAAATATGGATGAAGACATATCAGAGAAAAATCAAAGAACCCTCTGTATTACTGGCAAC
AGACTGAAGATGATTTGACAGTAACCATACGGCTTCCAGAAGACAGTACTAAGGAGGACATTCAAATACAGTTTT
TGCCTGATCAGATCAACATTGTACTGAAGGATCACCAGTTTTTAGAAGGAAAACTCTATTCATCTATTGATCATG
AAAGCAGTACATGGATAATTAAAGAGAGTAATAGCTTGGAGATTTCCCTTGATTAAGAAGAATGAAGGACTGACCT
GGCCAGAGCTAGTAATTGGAGATAAAACAAGGGGAACCTTATAAGAGATTCAGCCCAGTGTGCTGCAATAGCTGAAC
GTTTGATGCATTTGACCTCTGAAGAAGTGAATCCAAATCCAGATAAAGAAAAACACCTTGCAATGCTCAAGAGT
TAGAAGAATGTGATATTTTCTTTGAAGAGAGCTCCAGTTTATGCAGATTTGATGGCAATACATTAAAACTACTC
ATGTGGTGAATCTTGAAGCAACCAGTACCTTTTCTGTGCTAGTGGATCCTAAAGAAATGCCCTGCTTCTGTT
TGCGCCATGATGTTGATGCCCTACTCTGGCAACCACACTCCAGCAAACAAGATGATATGTGGGAGCACATCGCAA
CTTTCAATGCTTTAGGCTATGTCCAAGCATCAAAGAGAGACAAAAAATTTTTTGCCTGTGCTCCAAATTACTCGT
ATGCAGCCCTTTGTGAGTGCCTTCGTGAGTATTCATCTATCGTCAGCCTGCTCCCATGTCCACTGTACTTTACA
ACAGAAAGGAAGGCAGGCAAGTAGGACAGGTTGCTAAGCAGCAAGTAGCAAGCCTAGAAACCAATGATCCTATTT
TAGGATTTTCAGGCAACAAATGAGAGATTATTTGTTCTTACTACCAAAAACCTCTTTTAAATAAAAGTAAATACAG
AGAATTAAATTATTCTAACATATTGGCCTCTTTGTACTGGAAAAGTATTCAGTGGTACCTGGAGGTCTGGACAGTT
ATACTGTAACCTCTTAAGTTTTAATGTGCTAAATATATCTTGATGATTTTTTTATTTTAAATAACATTGGAAAT
ATATTCAAGAGATTATGATTCTGTAAAGCTGTGGAATGAAGCTGCAGATTTAGAGAACATTGGCTTCTGAAAAAA
AAAAAGAGTGAAGATAGTACTAGCAAGTATACTTATTTTTTAAACAGGCTAGAATCTCATGTTTTATATGAAAG
ATGTACAATTCAGTGTTTTAAAAATAAAAATATTTATTGTGTAAAAA

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FIGURE 1636

ADLSTRALLILTLRPWKAMEVAANCSLRVKRPLLDPRFEGYKLSLEPLPCYQLELDAAVA EVKLRDDQYTLEHMH
AFGMYNYLHCDSWYQDSVYYIDTLGRIMNLTVMLOD TALGKPREVFR LPTDLTACDNRLCASIHFSSSTWVTLSDG
TGRLYVIGTGERGNSASEKWEIMFNEELGDPFIIHSISLLNAEEHSIATLLLRIEKEELDMKSGGFYVSLEWVT
ISKKNQDNKKYEIIKRDILRGKSVPHYAAIEPDGNGLMIVSYKSFTFVQAGQDLEENMDDEDISEKIKEPLYWQQ
TEDDLTVTIRLPEDSTKEDIQIQFLPDHINIVLKDHFLEGKLYSSIDHESSTWIIKESNSLEISLIKKNEGLTW
PELVIGDKQGELIRDSAQCAIAERLMHLTSEELNPNPDKEKPPCNAQELEECDIFFEESSSLCRFDGNTLKTTH
VVNLGSNQYLF SVIVDPKEMPCFCLRHVDV DALLWQPHSSKQDDMWEHIATFNALGYVQASKRDKKFFACAPNYSY
AALCECLRRVFIYRQPAPMSTVLYNRKEGRQVGQVAKQQVASLETNDPILGFQATNERLFLVLT TKNLFLIKVNTE
N

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FIGURE 1637

GTCTGGGGAGATTGGAGGGGACGGCAGCGTTCTGCATGACGGAGGCGCTGCCGGGGCCCGGGTCTGTGGGGGCC
GTGCTCTCAGGGCGTGTGCGGGACGCCACCTGTGCACACCTGCTCAGAGCACGGCTCCTCGAGGGGTGAAGGGG
CAGACCAACGAAACCAGATGAGACCAACGACACCATGCGAGACACGCTTGACAGACACTGTTGTTTTGGAAATGTG
CTTCCCTCCATCTGAAATCTCATCCCTCCACCCGCCCACTCGGGCAGCTGTGCCGTGGGCAGGGCATGCGCTCCC
CTGGCTGAGCACCCAGAGATTCTCCTGCACCTTCCTCATGCCGCACGCTGCTCATCCGTCTCCATGTGTGTTTA
GATCCATGCCATTCACTGACTCACTAACACCTGCAAAATCTTTAAGGAAAAAGCTGAAGGGTACGACCATGCAC
ATATGTGACCTGGAAATGCAAATTTAGATCTTTTATGATTTAATTATTATTGTTTCCCATAGAAGTTCCCTCCC
TTTGAAATTAATATATAATGTATAAAATCTGCACTGAGCCATGGCGGAGCTGGGCAGCCCTAGGTTAGAGTGGA
GACGGAGGCCAGGCGCAGGGGTACACCTCATCTGGTTTTCTTCCCATCTCACAGCTTAGCTTGTGCTTCTCAA
CACCAAGTCTTTAAGAGCAATAAAAACTACACCATGAATGTTTGAATTTTTTTTTTTTTGGGGGGGGAGGGTGGA
TTTTGCTTTTCATCCAGAAGGAAAAGGGGAGGAGAGCTCCTTTACATTTTTTAAATTAAATTCATAAATCCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1638

GGCACGAGGGAGACGGACTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGCCTCAAGCAATCCTCCTGCC
TCAGCCTCCCAAAGCACGGGGATTACAAACCTGCTGAGGGATGCCAAGAAGTTCCAGGGTGAGAACACCAAGT
CGGCAGCGGCCCGGGCACGGAGGGCAGAGGCCAAGGCGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATG
CCTACTGGAAGGACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCG
ACCAGCTGGAACGTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGC
CGCGGGTGGCCACGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGG
AGGCCCCGACACAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCTGC
TGGAGGAGGGCAGCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCG
ACCGGCACCCAGAAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAG
AGAACCCCAACATGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCA
TGAACCAAGCGGGCCGTGCCCTTCAATGCCCCCAAGTGAGCCCCAGAACTTGGGGAGCCAGTTACCCACGGGGTGG
TCCAGGTACGACTCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGC
CGGGCCCCGGGGCCATGCTCTTATCACCAGCCACCCGTCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCC
ATCCCTCCCATCCCCGGCGCGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCTAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1639

MPKKFQGENTKSAAARRARAEAKAAADAKKQKELEDAYWKDDDKHVMRKEQRKEEKEKRRLDQLERKKETQRLLE
EEDSKLKGGKAPRVATSSKVTRAQIEDTLRRDHQLREAPDTAEKAKSHLEVPLEENVNRRVLEEGSVEARTIEDA
IAVLSVAEEAADRHPERRMRAAFTAFEEAQLPRLKQENPNMRLSQLKQLLKEWLRSPDNPMNQRAVPFNAPK

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FIGURE 1640

TTTTTTTATCATTGACAATGTTTATTATCAAGAACTTTAGGTTTTTTAAAAGAATGCTCGTTTTAGAATACAC
CAAGAGGACACTCTGTGACAGGACATATACAAACAAGGATAATTAAAATATTAAATACTATCTAAATTAAAAGAC
CATAATTCAAATTGCTAATTATAATATTTGTGTCGGTAGAAATAACTATAGTTCCCCCTTCATGAAATTCACCCCC
-ACGTTCTCATGAAGACTATGACGTCTCACCACAATTTTCAGTTATTTAATTTACAATAATCAATGCTGAGTTTTCT
GTGCTGAAGCATGCACTGTTACAGAAAGCACAAAATCCTATTTACAGGGATTTTTAGTTTTCTTTAAAATGTATC
TCAAGCATCTTTTAAAGTGCGAGCTACAAATAGGTTGTATCCTTAATGAAAAAGGCTTCTTTCTAAAAGAAGTAT
GAGATAGCTATCCAATACTGCAGGAACAGTTATATACTAACCGAAGGAACCAGCAGCACTCTGCTAACTCTGTT
TTAGTGTAGCAACCTCCTTCTTGGTGTCTACTACCAGCCAXACATGTACTCCATTGCTTTGGATACCAGACTTT
CATCTTTTTTTGGCGTTTGTCTGTCAGAAATACCCTGATAATCACTAGTAGAGGC

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FIGURE 1641

GGCAGATCTCACGAGAGAGGATTTGGCGCCCTCCTCTGTGGATTCTGGCCAGGCCGGGTTGGGCGGTTGCTGTGA
GAGCGGGGCTTCCCAACACCATGCCGTCCGCCTTCTCTGTGAGCTCTTTCCCCGTCAGCATCCCAGCCGTGCTCAC
GCAGACGGACTGGACTGAGCCCTGGCTCATGGGGCTGGCCACCTTCCACGCGCTCTGCGTGTCTCCTCACCTGCTT
GTCCTCCCGAAGCTACAGACTACAGATCGGGCAGTTTCTGTGTCTAGTCATCTTAGTCTACTGTGCTGAATACAT
CAATGAGGCGGCTGCGATGAACTGGAGATTATTTTCGAAATACCAGTATTTTCGACTCCAGGGGGATGTTCAATTC
TATAGTATTTTCAGCCCCACTGCTGGTGAATGCCATGATCATTGTGGTTATGTGGGTATGGAAGACTTTGAATGT
GATGACTGACCTGAAGAATGCACAAGAGAGAAGAAAGGAAAAGGAGAAGGAAAGAAAGACTGAGGGGCAGC
AGCTGCTTGGAGTTTTCGCTCCTTCCCGTCCACCCAGTGCAGCTCCCAGTGTGCTGAGTGTGCGTGGCGTGGGCATC
CTTCCAGCTGACTCATGGTTTGAAAAACCGTTGTTTATTTAAATATCCACAGTGGTAGGGGCACACACTGAAGTT
GGCTTTTTCAGCCAGCACTGAATGTATCCATCAGGACATGCGTCTTCAGGTGCCTGATCTTTGTAGTCAGGCTGTG
GGAACGGTCTCTGAGAGCTTCATAACTGGGAATTTGATTTGAAGAAGTCCATGTCATATGTGTAAGTACTAGTACTA
ATTATAAATATAAAATACACAATATAAAATATGAACTCAATAATAAACAGTGCCACCTGTACATGGGCACCATG
CCCTCCTCCTGCTGTGTGTTTTCTAGTGATGCCACAGTTCGCAGTAGAGGGTGTTCACCTTCCAAGACATG
GGGCAAAGTTTGGAGACACCTGGTGTCACTGGAGGGGGTGGTGTCTCTGGCTTCTCCTGTGGAGCCCGGGGTGA
TGCATAAAATCCTGTGTGCCTGGGTGAGCCGCATCACAGACAATGACTTGACATGAAATGTCAGCTGTGCTGGGG
CAGAGAGACCTTGAAGGAAGCTCTTGGAAAATACGTTGTATCTCAGTTTGATGAACCAATTCACAAGAGGCTAG
GCCCTCTCTAGCAAAGTTATGGGCTGCTTTACTGAAAACAGAATGGAAGCCCTGAAGTCAACACTCCATGGAGAA
GCGTGTCTTTCCATAATGTCTGGTGTCTGTGTTGATTTAGGTGCTTGGGAACACAATGCTCCAGTTCTGTTAGGA
CAGGCATACTGTTACTTTGCAATATCCACTTTATAAAATAGCTCCTGCCCAGTGGCTCTTGGTTCTGTCAAATG
TGGACCTGTAGTTTAAAGATGACAGGTGGTTAGAGACCCAGATATTTAAAAATAGGTGTTCAATAAGGGAATACT
GATTGTGCATTGTATCTGGATAGCATGCCTAATTGTGCATTTCTGAAAGTTACCAATTCAAATGTAATTGGAAC
AGTTATCTTTGATTAGACAAGCCTGGGAAGAGAATGTTGAGGTGCAGAGCTCACCAGCCAAGTTTCATGCCCTCT
CGGGCCTTTGTGGCTGAGAAGTGGGACAGAAAGATGATTAAGGTAATGTGTCCTCCCTGTAGCATTGTCCAGGGC
CGTTGTGTAGATATTTGACTTCACTGACAGAAAAGAAACCAGGGAGTTTGTAGAGACTGTGCATTTTATAGTATAA
CATTTTCACCATCTGATATGGTTTGGCTTTGTGTCCCCACCCAAATGTCATCTCAAATTGTAATCCCCATGTGTC
AAGGGAGGGACCTGATGGGAGGTGATGGGATCATGGGGTGGTTTCCCCTATGTTGTTATCATAATAGAGAGGGA
GTTCTCACAAGATCTGCTGGTTTTAAAGACAGCAGTTTCCCCTGCTGTCACTGTCTCTCTCCTGCTGCCTTGTGA
AGAAGGTGCTTGTCTTCTCCCTCTGCCATGATTGTAAGTTTCCCGAGGCCTCCCGGCCATGTGGAAGTGAAGTCAA
TTAACTTCTTGTGTTATAAAGTAAAAAAAAAAAAAAAAA

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FIGURE 1642

GCAGCCCCGGCGGCCGAACGCCCGGGCGGGGACTCCATCGTCAGAGAAGTCATTGAGAATTCAAAAGAAGTTTC
TAAGTTTATTGCAAGAAAAAACCTGCGCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGTGACGACAACTTGA
TGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCTCCCTCCAGATAGCA
GTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATCT
CTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGAGTAACAGACATAA
ACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTTGTTTACCTGTGCGAAAGCTGTAATTGAACTTC
TTGAAAAATCAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCCATGGGTCTTTGGAAGCTGCTC
TACAATGCCTGTTCAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAAAAACAGCCAGCTTCAAAGCAAGC
TTCACGAGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCCTTACTTGGATACAACCAGGAA
CTACTGTTCTCAACTGCTCCCATGACTTCTGTGAGGGAAGGTGGGTGTGGCTCTCCAAGAATACATTTTGGTG
GACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATGGTCAGTAGTGGAAGGA
GATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCCTGTGCCAA
GTGACATTGAGATTTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAGATTGGATTGCTTGCGAG
ATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGGTTAAAGGATCAAGCAG
ATGGAATAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGGAGAAGGGAAGAGCACAGTCACCATCGGGC
TTGTGACAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACGT
TTGGAGTGAAAGGAGGAGCCGCGGGTGGTGGATATGCCAGGTATCCCCATGGAGGAGTTCAACCTTCACTTGA
CTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCGCCATCGACACGAGGATTCTTCATGAAA
ACACGCAACAGATAAGGCTCTGTATAATCGGCTGGTTCTTTTAGTGAATGGTGTGACAGAGATTTTCAGAAATTC
AGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAGAAGGAAGTGAGTAAAT
TTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAATGACCGATTCTACGAA
AAATAACCATCGGGCAGGGAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGACATCGCAGTGGCCAGCG
AGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGCCA
GTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACAGTTTTGATGAAAGATG
CAATAAAACCAAACCTGATGACAGCCCTGGAAGGGACACCTGTGTTGCTGATGCGGGCCCTTTTGCTAACATTG
CTCAGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAGGATTGTAGTGACCG
AAGCTGGCTTTGGTGTGATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCTTCCGCTTGGTGCCCA
ACGTGGTTGTGTTAGTGGCAACGGTGCGAGCTCTGAAGATGCATGGAGGCGGGCCAAGTGTAACGGCTGGTGTTC
CTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAACCTCCAGAAGCAAATTC
AGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGACACCCGCGCTGAGATTG
ACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCACTGGTCCGTTGGTGGAA
AAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCTCTGTATGATG
TTCAGGTTCCAATTGTGGACAAGATAAGGACCATGTCTCAGGCTGTCTATGGAGCCAAAGATATTGAACCTCTCTC
CTGAGGCACAAGCCAAAAATAGATCGTTACACTCAACAGGGTTTTGGAAATTTGCCCATCTGCATGGCAAAGACCC
ACCTTTCTCTATCTCACCAACCTGACAAAAAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGG
CCAGCATAGGCGCTGGGTTTACCTTTGGTGGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCCT
GCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTCTAAGTGGACAAGGCTCTCACAG
GACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTGTGTCAGTTGGAGAAGAACTGAATTTGAAAA
ATGTCTGTTATGCAATGCTGGAGACGTGGTGAATAGGCCAAAGATTTCTTCTCGTTCAAGATGAATCTGTTC
ACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTATTTCTGTTTCTGTGGA
GTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGATTAGGAGTGTGAACATAA
AAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATGGATCTAGAAAACCAAA
AAAAAAAAAAAAAA

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FIGURE 1643

GTCTCTCTGCTCTCGCGGCCGACTCGCAAGATGGCGCCGAGAAAGACAGGAAGCCCAAGAGGTCAACCTGGAG
GTTTAAATTTGGACCTTACTCATCCAGTAGAAGATGGAATTTTTGATTCTGGAAATTTTGAGCAATTTCTACGGGA
GAAGGTTAAAGTCAATGGCAAACTGGAAATCTCGGGAATGTTGTTTACATTGAACGCTTCAAGAATAAAATCAC
AGTTGTTTCTGAGAAACAGTTCTCTAAAAGGTATTTGAAATACCTTACCAAGAAATACCTTAAGAAGAACAATCT
TCGTGATTGGCTTCGAGTGGTTGCACTCTGACAAGGAGACCTACGAACTTCGTTACTTCCAGATTAGTCAAGATGA
AGATGAATCAGAGTCGGAGGACTAGGCAAAGGCTCCCCTTACAGGGCTTTGCTTATTAATAAAATAAATGAAGTA
TACATGAGAAATACCAAGAAATTGGCTTTTAGTTTATCAGTGAATAAAAAATATTATACTCTTG

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FIGURE 1644

SSLLSRPTRKMAPQKDRKPKRSTWRFNLDLTHPEVDGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERFKNKIT
VVSEKQFSKRYLKYLTKKYLKKNNLRDWLRVVASDKETYELRYFQISQDEDESESED

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FIGURE 1645

CTAACTTTGAGTCAACGCTGACTACAGCACCAGGACTGCTCACTTCCAGCTTCTGCTGACACCTGCCCTCGTTTA
GTCTTTCTTGGTGGCTGCAGGTTCACTAGAACTCTATGCCAGGCTTTGTCTCCGGGACATAGGAGAGTGTGGT
GCTCAGTCATGTTTGTGAATGAGTAATAAATGGTAAAGGTTGTTGCTGCCCCGAGACGTTCAAGAGGAAGCAG
CCCCCTAACCCAGCTGGGAGGAGGAGGAAGAATCTGGGCTGGTCAGTTGGGGAAGGAGCTGAGCAGGCCGGGC
CACCTGGGCTGACACAGCAGCAGCACCAGTGGATGGGATGCCTGCAGTCAGCTGCAGGAGGGCCTCGTCGGGAG
GCCACAGGGCCCCCTCTTTGTCTTGAATGGAGACCTCCAAGGCTCCAGGACATAAAGGGCCTTGGCCAAGCTGTT
CCTGGCCACCTGGCCACATCTCCAGCTGCACCAGTTCTCACCTCCATTCCCCACGGCCCCAGCTGTTCAGGTTTAA
GGGTGGCAGAGAGCTCCATGCACCCCCCTGGCCTTGGCCTCTTCTGGGGCTTAGAGCTCCAGGACTTTTGGGCTG
TGCACCTCAGCGTCCCCCTTACGACTCCGGCGAGGACGGCCAGGTGCCTGGTGGACTCTTGCACGTGCTCAGC
CAGGAGACCTCATGTGCGCTGTCTGAGCCACCTGTGTCTCAGATGTTCCAGGTCATCCAGCCAGAGCGTGGC
CTGTACATCCAGGCCAACAACTGCGTGGAGGCCAAGGACTGGATCGACATTCTACCAAAGTGAGCCAGTGCAAC
CAGAAGCGCCTCACCGTCTACCACCCGTCGCGCTACCTGAGCGGCCACTGGCTGTGCTGTAGGGCGCCATCCGAC
TCGGCTCCGGGCTGTCTGCCCTGCACTGGCGGCTCCAGCCAACATCCAGCTGGACATTGATGGGGACCGTGAG
ACGGAGCGTATCTACTCCCTCTTCACTTGTACATGAGCAAGCTGGAGAAGATGCAGGAGGCCGTGTGGGAGCAAA
TCTGTGTATGACGGCCCCGGAGCAGGAGGAGTATTGACGTTCTGTCATTGACGACCCCCAGGAGACCTACAAGACG
CTAAAGCAAGTCATCGCTGGGGTTGGGGCTTTGGAGCAGGAGCAGCCCCAGTATAAGAGGGACAAGTTCAAGAAG
ACGAAATATGGAAGCCAGGAGCACCCTATCGGAGACAAGAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACC
TCCACTCATTCCATTTAAGTCTGCGGGACGCGCCAGTGGCGCCAGCAAGCTGCCCATGCAAGCCCGCAGCCTT
TGGGAGGGAGAAGAGAAGGAAGAGCGCAGAGCCGGCAAGTGAGATGCACGCCGTCCCGGCCATAGACAAGTGG
CGCTGGGGTTTCCCTCTCCAGAACCGCTGCCACCACCGCCACGCCCTCCGCAGAAAGCCCACCTGGCCCTGTGG
AACGTGTGCTCATTTGATTCTGTGCTTTTTGTCTCTTGTGTTGTGGGATCTGGGGATCAGCTGAAGGATCAGGAA
GTGTGGGCTGTGCCCTAGCCACACCACAGCCAGCCTCAGGGAGCCACGGCCCGTCTAGTCGACTGTGACATGCAC
CTCCGGCCGTGTGTGCGTCAGTCTCGTGCACGTCTGTCTTGCCTTGCACGGTGCCTGTGACGCTGGGCTCTGTGG
CTCTGTGCCCGGGAGGCCTGTGGCCCCGCTCGGCTTTCCGGCTTCATCACATTGGGAGGTTTCAGAGCATTACTC
TCCCACTGTGCTGCCATCCAGGCAGCCATGGGAGGCGGCCTCCCTGTTCACCTTTCAGAGTTCTGTTTATTCTT
GGCTGAGGGGTCACTTTTATGGCTGGGAGGTGCAGAATTACACAGAAGTCCAGTCTGAGGATGTCTTGGTGTCT
TGGGGGATACGGGTTCTGTCCACAGAGTCCCTTGGAGGGAAAGGTGTGGGCTCCAGCTTCTCCAGGCGTCTGCGG
AGCCACAGTTGAAGCCACATCGTTTTGTCTGTGAATGGGGTTTTAAATCAGAATTAACATTTGCCACCCCCCG
TGGAAGTTTGAAGATTTTAAATAAGAAATGTACATTTTCAAGCTGTTTTCTTTATGTTTTTGAAGGACCATT
TTTAATTAGCTCTTTGATACAAAGTAACTCAGAACGTCAAAACCTATACCCACTAAAGGGAAGGCTGCCGGGAAG
GCAATGGAACAGGAATGGAGCCTGTCTCAGGAAGGCCAGCTGCAGGTCTCCAGAAAAATCAAAGAAGGAAGAA
ACTCTGAGTTTGAGGTACAGGGGCTTCGGGGTGCAGACGTCCCTCCAGGGCCCATGGTCAGTATTGCACCTGTGT
TATGAACCCCCAGATGTGTGACAGGGCAGGGGCGGGGCTGTGTTTTATTGGGGAGGGGAGCATCTTAAAAATG
GGGTCCAGGCAGACCCCTCCAGACCTCACACTGCCGAGGAGGCCTTTCCCAAAGGGCGTCTCCCGGGATGCAGA
CGGCAGGTGTGTGGGAAGCGCGTTTAAATACACAGCAGCAGTATCCTTGTACCGACTTCTCCCGGTTCTTGTT
TGAAAATACTGTAGTTTCAAGCTCTTGATCTAGATGGCAGATAGGAACCTTCTGTGCACAAAAATACTGGAGGAAA
ATGTTGTAAAAATAGACTTTTGGACACACAGCTGTTGGGGCTGCACTGAGCTGCAATTTTTAACATGGATTTATA
ACTTAATGTTTCTGTTTATAAAATACTAATGATTTGCAATGTATTTTACTGGCCAATTAACAGATGTTTTATT
CTTTCTGAA

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FIGURE 1646

MFQVIQPERALYIQANNCVEAKDWIDILTKVSQC�QKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLPAN
IQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVIDDPQETYKTLKQVIAGVGALEQEH
AQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI

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FIGURE 1647A

ATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAAGGTAGACAATTGCAGCCTGCGGAGAGGCCT
CCCCAGCTCAGACCTGGGGCCCCCTACCTCCCTACAGACAGAGCCACAAGACAGGAGCCCAGCACCCATGAGTTGT
GACAAATCAACACAAACCCCAAGTCCCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGCAATGGCTTCCATGAGG
CAGGCTGAACCTGCAGATATGCGCCAGAGATATGGATCGCCCAAGAGTTGCGGCGTATTGGAGACGAGTTTAAC
GCTTACTATGCAAGGAGGGTATTTTGAATAATTACCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGA
CTGTTACGTTACATTGTCCGCTGGTGTGGAGAATGCATTGACAGGTTCTTTGCGGAGCCGAGATACCATGCAGA
CATTTTGCTTGTTCAAACCAACAAGACCCAGCAGCGGTCTCCTGGTGCCATTATTATGCAGCCAGCGGTTCTC
TTGTGGAGGGGGCAGGTGACGTTTCAGAAGACACCGAGCTGGATGGGACTACCTTTCTGTTTCATCACCACACAGC
AGAATTTCTAATGGAAGTTTGTGTGAATGTAAAGGAGGGAGCATTCTTTGCTTTTTTAATATACAAACCATGGTT
TTTTGGAGCAGGATTTTGTGTAAGAATGGTGTTCATGCAGTGTGTTTTCCCCCTCACCTTCAATAAGGTTTTT
CAAAAAGGAAATGGAACTTTTTAACCAATTTGTGAATAACTTTTTGTATTAAAAATTTAAGAACCTACGGCCTAT
TCTCAGAGGATTATTAACCCCTGCAGTGGAACTGAGCCAGCTAACTTAAAAAGCTGCCTTAGTTTATTTTTAG
AGATTACAGAATTTTTAAACAGGGAGACGTGTGATATACTCCCTCCCTTCCCTACTATTGCCTCTCTGACCTTTT
TAAATTATTTTTTAATACCAAAAGAGTTCTTTTGAAATGGAAGTGAATTAAGGGCAGAGGGTCTGTTGCCAGCCT
GCATTGATATACCAGTCCCATTGTAAATATTTACGTACCTTTATAAATTCAGTTGCATCTGTGGCAAAATTTCA
GACTATTTTTGCGTCTTTCTCATCACTTTTTGTGATGCAACTCCAGTCTGGACTCAGATGCATAGATTTGGTCC
AGTGTATTTTCATGATAAAGTGAAATTGAGTCAGAACAAGAGTTAATACTGCCTGTATCTTGCACAGTTCGAGC
GATCTGTTATTAACTGGGAAGCATTGGTGTGGTTTTTCATTCCATTTTCAGCAGCATGTTATTGGGAAGTATTC
TGAAGAGGCAATAGCAGTAATAACAACAGACTTAAGTGCTACGCCCCCTTTGTGCTGCTGGCTTTCTGGTTGCAG
GCTTTCCCATGGTTCAGGATGCAGTGTGACATCAGGTCAGAGGGCCACCGTGTCCATTACAGCAGAGTCCA
GCTGCAGCATCCAGCTCACGCCCTCATGGGAATTGGCACAGGCCTGGGGCAGGGCTTCTGATGGCCATTGCTTG
GCCTCCTGCATTTTAGTCCAACCTCAGTCCACTAGCTTCACTCCTTTAAATTCATTTGAAACAGGCCTCATCC
CACCTCCACCAGCACCATAGAAGAATAATTCTGGGCAGAAGTCTGTTTTTTTTTCATTTTTCCAGGACAGTTGGAT
ATTGTCAGGCCACTTGTGACCCAGCCATGTAGTGAGGGTGTCTTTCTCTGTGCCTGTCTCTATGAGTGCAGT
GGAAGGAAGCCACACACTGGTCAGTCATTTAGAGGCAGCAGATGCCAGGGAGACCCAAGAAAGAGTCAGGTTA
GGGAGCAGTGAAAGTGAGGAGGGAAGACAATTCTGTGAACCTGTAACTCTTAAATTTTTGAAAACCTCCATCGT
TAAACAACCTTTTAAAGAAATAACTAAATTTTCAAATGAGTAAGCAGTGCCACCAACTAGTGTTTTGCCCGATAG
AAGAGCCAGCATGTTACGTTATTTAAATTAGGTGAAAAATCTAAACATTTTTATCTTCATAATTTAAAAAATA
TATATGTATATATTGCATATTCATTTTTCTTTAGGTAGAGATGATTTCAATCCAAATACTCTTACTTTAAAAA
ATTTCTTTTCCCCAAGAATCTCCTTGGGACTTTGACTTATTTTTAAAGCTGTGTTGGAGCTCATCTGTTCCCTG
ATGTGTCTCGAGCCCATTTGGTAGGGTCATACAAAGCCACGGTTACAAGCAGTGGTAGGATTGCAGCCGTGGGCC
TGCTGGACACACATACACCAAAGATGTATTGGATCTGGGCACCCCTCCAGGATCCCTGTACTACGTGCC
AGTCTCCTGACTAGAGCACTTTACTCTGTTTCTCAGCCCTGCAGCCCTGGGAGCACACACTGGGTGCAGCCCT
GGGCCAGGCACGGGAGGCCCTGCCCTGTGCTGCCAGGGGCTGTGTGCACCACATGAGCACATTTCCCTCTGGCC
TGGCGGCCCTCCAGGCTGGCTGTGGAAACAGTTCTGAGGAAATTAGAGATTCTATGAATTGTAGGAGTATTAAAG
ACCAGGCTGTTGGCACCAGAACTTAAAGCGATGACTGGATGTCTGTACTGTATGTATCTGGTTATCAAGATGC
CTCTGTGCAGAAAGTATGCCTCCCGTGGGTATACGTTTTTACCTTTTTTAAAAAACATTTTGTAGAAAAATAA
TTAAATCCCTTTTTGGAACTTACTGCAGTTTTTGTGCTTGACAACCTCTCCCTATGTGAGGTTTGTAAAAAG
TGCTCTGTGACTTAACACAGAAACGCAATAAACACACACAAAAATAGTTTCATGAGTGATCTTCAGATGCCCTTC
CCAATGGTTAGTTGATCAAGAATTTTGGGGGTGGGGTTGCGGAGAAATCAAGTTTAAATTCCTTCTGATTAA
AAAAATATAGTGGAAATACAATTGTCTGCCGTTTTCCCTTCTTAATGTATATATTGTGAGTATTTATTAGATTCTGT
AGGTCATATTACTTATCAACTGAGCCAAATGTCTGTGTGCAATTGTGTTTCCCTTACCTTGTAATTTTGTACA
GCATAAATAAGTAAAAAATCACTGTTTTTCTCACTTTTTCAAAATCAAGGATTGTAAATATTGTAGATTCTTT
TTCTGTGTGATGTCTTACTGTTTCATAATGCTGTAACTTGTAGAAATATTGTATATTTATTTCTGCTTATTT
AATGTCTTAATTTCTGAAAAGTATTAACATCCCTGTCTCCCACTCCCTGCCGTCCCATGAAGTTAACTCCTGAG
AGTTGTGCGGGGTGACTGGAGAGCTCATTGCAGACCAGTGGTCTCCAGGGTGGCTCTCCACCTTCGGGTCTGTG
GTATTTCCAGTCAAGTGGGTTTCAATTTCTGGGCTTTGCCGCCCTTATGATGAAGTGTGTGTTGATGCCAGTGA
GAAACTCAGTCTGGCAGGCTACAAAATCTACTCCAAGAAATACCCAGCAACCTTCTGTTTGTTCAAAGCAACT

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FIGURE 1647B

AGCTTATCATGCAAGCAAATTTTGCTGACTCCAGGCTTTATCTTTAGGAAAACAAAAAACCAAAGTATTATCAG
CAGGTGGGAAAGATTTTTCTATTGAAAATTTATCCCTGACAACTCAGCGTTTAGAAAAGAAATAAAATGTGCCAC
TTCCAGAGGTGCTGCATTGCAGTTGTTTCAGGGCTAGGGCCAGGCAGGACAAGTGAATGGGTGGGACAGGTGGCTC
CTGCCTAAGGACCACCTCAGGCCACTAACCCCTTGTTGGACAACCTGTGAGTAGCTGGGTTTTCCCCACCTGCTGT
GCAACTTCCTGTGCTTTGAGGTTGGACTAACTTGTCTTCAGGAGCTAATTAACGTACAGCCCTCCCCACGCCCC
ACCCATACGGTCACATGCATTGTTGGTCAGCCTGCTTCTTCAGGTGATGCCCTCCTTCTGATACTCCATCTCCTTCA
GGGGAGGTTGGGGCCCCACTGGACTGGGTGTCAAGATGTGAAAGCTTATGGGAGCTTTAAGGAGACTTCATGGTG
GTTCCATGCAGGTGGTTCTGCCATCCCTGCTGATTTAGCCTGGTGCCTGTGTGTGTCCACTCACGTACACGTGGG
GTGGGGGAAACGTGTCTACAGATGACGCTAAATCAGTTGGGGTCTACTCTAAACAGCATTGTGTGTAAGAAGCAT
CCTCAAGCTCCCAGTTAAGTAACTTGACTACTTTTTATTGGGAATTTTCAGACTATAGAAGCTCTCTTATGTTTTA
TGTCCAGATTCTGTGACCACTAGTTACTGTATCAGAACTCATCAGGTACCCACTTATAAATAGCACTGATCTGGC
TGTATACTGATCCATCACTAACCTGTTTTCTAGGACCCAGCGTATGTAGCATTGTATTGCAGTTTCCCTGGCTT
ACTTGTGTTTTGCACTGATGAATTTTGACAGGGTAATTGCCACTTTACTTGTGCAATACTGCTGTAAATAACTGC
AGATTTTTAAACAATCTTTTATGTTAATTTTATAAAAATAAAACTTTCACTAGTTTTAAACAAAAC

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FIGURE 1648

MAKQPSDVSSECDREGRQLQPAERPPQLRFGAPTSLQTEPQDRSPAPMSCDKSTQTPSPPCQAFNHYLSAMASMR
QAEPADMRPEIWIQAELRRIGDEFNAYYARRVFLNNYQAAEDHPRMVILRLRYIVRLVWRMH

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FIGURE 1649

GTGCAGTTGCGGCTCCAGGGCC**ATGG**CGGAGGAGCAGGGCCGGGAACGGGACTCGGTTCCCAAGCCGTCGGTGCT
GTTCTCCACCCAGACCTGGGCGTGGGCGGCGCTGAGCGGCTGGTGTGGACGCGGCGCTGGCGCTGCAGGCGCG
CGGGTGTAGCGTGAAGATCTGGACAGCGCACTACGACCCGGGCCACTGTTTCGCCGAGAGCCGCGAGCTACCGGT
GCGCTGTGCCGGGACTGGCTGCCGCGAGGCCTGGGCTGGGGCGGCCGCGCGCCGCTCTGCGCCTACGTGCG
CATGGTTTTCTGGCGCTCTACGTGCTGTTCTCGCCGACGAGGAGTTCGACGTGGTAGTGTGCGACACAGGTGTC
TGCCTGTATCCAGTGTTTACGGCTGGCTAGACGGCGGAAGAAGATCCTATTTTACTGTCACTTCCCAGATCTGCT
TCTCACCAAGAGAGATTCTTTTCTTAAACGACTATACAGGGCCCCAATTGACTGGATAGAGGAATACACCACAGG
CATGGCAGACTGCATCTTAGTCAACAGCCAGTTCACAGCTGCTGTTTTTAAGGAAACATTCAAGTCCCTGTCTCA
CATAGACCTGATGTCTCTATCCATCTCTAAATGTCACCAGCTTTGACTCAGTTGTTCTGAAAAGCTGGATGA
CCTAGTCCCCAAGGGGAAAAAATTCCTGCTGCTCTCCATCAACAGATACGAAAGGAAGAAAAATCTGACTTTGGC
ACTGGAAGCCCTAGTACAGCTGCGTGGAAGATTGACATCCCAAGATTGGGAGAGGGTTTCATCTGATCGTGGCAGG
TGGTTATGACGAGAGAGTCTTGGAGAATGTGGAACATTATCAGGAATTGAAGAAAATGGTCCAACAGTCCGACCT
TGGCCAGTATGTGACCTTCTTGAGGTCTTTCTCAGACAAACAGAAAATCTCCCTCCTCCACAGCTGCACGTGTGT
GCTTTACACACCAAGCAATGAGCACTTTGGCATTGTCCCTCTGGAAGCCATGTACATGCAGTGCCCACTCATTGC
TGTTAATTCGGGTGGACCCCTGGAGTCCATTGACCACAGTGTACAGGGTTTCTGTGTGAGCCTGACCCGGTGCA
CTTCTCAGAAGCAATAGAAAAGTTTCATCCGTGAACCTTCCTTAAAAGCCACCATGGGCCTGGCTGGAAGAGCCAG
AGTGAAGGAAAAATTTTCCCTGAAGCATTACAGAACAGCTCTACCGATATGTTACCAAACCTGCTGGTAT**TAATC**
AGATTGTTTTTAAGATCTCCATTAATGTCATTTTTATGGATTGTAGACCCAGTTTTGAAACCAAAAAAGAACCT
AGAATCTAATGCAGAAGAGATCTTTTAAAAAATAAACTTGAGTCTTGAATGTGAGCCACTTTCTATATACCACA
CCTCCCTGTCCACTTTTCAGAAAAACCATGTCTTTTATGCTATAATCATTCCAAATTTTGCCAGTGTTAAGTTAC
AAATGTGGTGTCAATCCATGTTTCAGCAGAGTATTTAATTATATTTCTCGGGATTATTGCTCTTCTGTCTATAA
ATTTTGAATGATACTGTGCCTTAATTGGTTTTCATAGTTTAAGTGTGTATCATTATCAAAGTTGATTAATTTGGC
TTCATAGTATAATGAGAGCAGGGCTATTGTAGTTCCCAGATTCAATCCACCGAAGTGTTCACTGTCATCTGTTAG
GGAATTTTGTGTTGCTCTTTGCCTGGATCCATAGCGAGAGTCTCTGTATTTTTTTTAAAGATAATTTGTAT
TTTTGCACACTGAGATATAATAAAAGGTGTTATC

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FIGURE 1650

MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAAALQARGCSVKIWTAHYDPGHCFAESRELPVRCAGDWL
PRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDVVCDQVSACIPVFRRLARRRKILFYCHFPDLLLLTKRDSF
LKRLYRAPIDWIEEYTTGMADCILVNSQFTA AVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPEKLDDLVPKGKK
FLLLSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTFL
RSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPD PVHFSEAIEK
FIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTKLLV

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FIGURE 1651A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGTGTCCCTCCCTCAGC
GCCGACACCATGTGATCCAGGTTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGTGTCCAGGCTG
ACCAAGGTGGAGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACAGAGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGTCCCCACAGACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCCTCCACCCACGGCGAGGCGGCCGCGGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAATCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCCGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCGCTCCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCGGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCACATGGCCTTCCACATCTACTGCTGGACCCG
CCCCCTCAGEAGTGTTCACGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCGAGTCCAGGTGAGCGAGTGGGTGTCCATCGGCCCCACGTGGCT
GGCATACACGGCCGAGCAACGACGGAGCGTACTCCCTAGTCTGGCGGGGGGCTATGAGGATGACGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTGCAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTGT
GATCAGAACTACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTGGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTGTGAAATACTGGCCCGAGAAGGGGAAGTCCGGG
TTTTCTGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCAGGACGGCAAGGGCAAGTGG
AAGCGGAAGTCCGACGAGGTGGCCCGAGCAGGGCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGAG
CCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CTGGCGTCACTCAAGGACCGCGCGGCGAGCGGCAGCCCGTTCAGTTGTTCTGAGTAAAGTGGAGGAGACGTT
CAGTGTATCTGCTGTGAGGAGCTGGTGTTCGGGCCATCAGACCGTGTGCCAGCACACGTTGCAAGGACTGC
CTGGACAGATCCTTTCCGGCACAGGTGTTAGCTGCCCTGCCCTGCGCTACGACCTGGGCCGAGCTATGCCATG
CAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAGC
ACTTCTCGACAGGCGTTTTGCTGAAAACGTGTCGGAGGGCTCGTTTCATCGGCACTGATTTTGTCTTAGTGGGCT
TAACCTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAAGGTTGTCTTCCTTTTTTTTTATTTTTTCAAA
TCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGAAA
CATAAAGCCTGCAATTTCTGACAAAACAACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGTGGA
GGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTAAGAAGGCGACAGGATCAGTC
CTTCTTAGGGTTCTGGCCCCCAAGGTGAGAGCAAGCATCTTCTGACAGCATTTTGTCTATCTAAAGTCCAGTGA
CATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGA
AAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCTGAG
ATCCGCGTGAAGAGTCTCTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTCTGC
TCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACGAAGTCA
CGTGCAAGTGCCCTTGATTGTTCTCTTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAAT
GTCAACCAGATTCTAGAACTGCGGTATCCAGTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGAGCC
TTATAGATCATTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGTTTTTTTTTAATTTTTT
TTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAACGTT
AGGGTTTGGTTGTTTTGTTTTGTATTTTTTTCTTTTGAAGGTTTGTTAATTTTTCTAATTTTACCAAGT

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FIGURE 1651B

TTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAACTGGAGCAATGTTATTTT
TAAAGGGTTTTTTTACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAGGCT
TTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGATTGAAAAAAAAAA
AAA

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FIGURE 1652

MWIVRTMDGRQHTVDSLSRLTKVEELRRKIQLFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTIQLLVRO
SLVLPBSTKERDSELSDTDSGCCLGQSESDKSSTHGEAAAETDSRPADEDMWDETELGLYKVNEYVDARDTNMGA
WFEAQVVRVTRKAPSRDEPCSSSTRPALEEDVIYHVKYDDYPENGVVQMNSRDVRRARTIIKWQDLEVGOVVML
NYPNPNKPERGFWYDAEISRKRETRTARELYANVVLGDDSLNDCRIIFVDEVFKIERPGEESPMVDNPMRRKSGP
SCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFHICYCLDPPLSSVPSSEDEWYCPECRNDASEVVLAGE
RLRESKKKAKMASATSSSQRDWKGGMACVGRTECTIVPSNHYGPIPGIPVGTMRFRVQVSESQVHRPHVAGIH
GRSNDGAYSLVLAGGYEDDVHGNFFTYTGSGGRDLSGNKRTAEQSCDQKLTNTNRALALNCFAPINDQEGAEAK
DWRSGKPVVRVVRNVKGGKNSKYAPAEGNRYDGIYKVVKYWPEKGKSGFLVWRYLLRRDDDEPGPWTKEGKDRIKK
LGLTMQYPEGYLEALANREREKENSKEEEEEQQEGGFASPRTGKGKWKRSAGGGPSRAGSPRRTSKTKVEPYS
LTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEETFQCICCCQELVFRPITTVCOHNVCKDCLDR
SFRAQVFSCPACRYDLGRSYAMQVNQPLQTVLNQLFPGYGNGR

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FIGURE 1653

ATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCA
AGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAAGT
GAACGAGTATTTGCAAAACCATTCCTTCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCAT
CCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT
TGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTTTTC
ACTGTGGTGTGACAAAAGTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTA
CATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGGCCACATGTGGA
CAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTATAAGT
AGTGTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTACGAT
ATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCATGGAA
GCTTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTA
ATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGIGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCT
AGTTTCGATAAATCTATTGGAATCTTTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATACAAAGAGAATG
CAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATTGCG
CTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAACCAG
AAATTGAAGGAGAAATTTGAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCTATC
TATAGCCAGATTGAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGC
AAGCCTGGATCTGTGCCACTTGTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAA

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FIGURE 1654

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGEFVRGICTRFCGTSFFTVDGDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMITWGFDSISSVKFNPIETFLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVS AVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSRSEVYHTKRMQHVICVKWTSDSKYIMCGSDEMNI RLWKANASEKLGVLTSREKA AKDYNQ
KLKEKFQHYPHIKRIARHRLPKSIYSQIQEQRIMKEARRRKEVNR IKH SKPGSVPLVSEKKKHVVAVVK

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FIGURE 1655

GGCACGAGGGTGGCGTGGAGTGGCGTGGCGTGGCGGGTCTCGCGGCGCGGGCGCGCACCCGGAGCTGTGGACGG
AGAGTGCCTCCCTCTGGCCTCAGTTTCCTCATGTTGTAGTAGCGGAGCATGGCCCCGACCGGGCCCCGAGACCG
CCCCGTGCAACCTCACCGCCAGCCTGGGGGCCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGGATTCTCCCTG
CCCCCGGCCCTGGTGGCTGACTGACCCCTCCTGTTCCAGAGCCCCCAGCGCAGGCCGGGATGTTTCGTCTGGTGG
AAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGA
ACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTGCATTGTCTGTTTGATATCACAAACTGGAGG
ATGCCTATGTATTCCTGGGGATGGCGCATCACACACCAAAGTCTCTCTAGGCTTCTTCGATGACATTCTCATCC
CCCCAGAGTCACTGCAGCAGCCAGCCAAGTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGG
AAGGAGCACACGACCTCTACATGGACACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACA
CGTCCCCACAGGGCCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGCTGCCAAAGAAGGAGGCTCCGTACA
CGCTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCCTTCTCTCCTGGTGGACCAGCAACTAGCCCTGGGGCTGGA
CAGTGGACCCCTACCAGCCTGCGGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAG
GAGATAGTGTCTCGAGCTGGACAGTGAGGCAAGGCCAGGAGTGCCCACCAGCTTGCCCCGCTCCTCCACCATCTA
GGCCCTGCTCCTCCTTCACTGCAGTGATGGATCCATCTGTGGCTGTGGCTGTTGGGCCTCCACTGACCTTGACTG
AAAAGACCCCTTCCTGGACCCCTGGACTTGACAACAAACGGCACAGACACCAATCACTCACAGAACAGTCACTGGTT
TTGGATTCTTGTTCCTTGCAAGAACAAAAGGTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGG
AGAAAAACITTTAGATGGGAGTCTTGTTCATCAAAAATAAATACAGTTGCATGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1656

MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYNVGLCICLFDITKLEDAYVFPGDGASHTKVSLGFF
DDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDLYMDTGEEIRFRVVDESFVDTSPGSSADATTSSSEELPK
KEAPYTLVGSISEPGLGLLSWWTSN

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FIGURE 1657

GCGGCGCAGCGCGCGGCGCAGCGCGCGGCGTCAGTCTTGGCTGGCAGACCTGTACTCCGTACTCCGTACTTCGTA
GTCGCAGCGGCGCGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCCACGTGTTGCCTGACCATTCCCT
GAGCCCAGGTGGGAGCCGTGGCTGAGGTGACGGTCTCAAAGTGGAAGAGCTTACTGTACAGCAACTCCTTTGCA
AGATGCCCCGGCCAGGAATAGTTGCTGAACACCCAGGCCTGCTGAGGTCCCTCCTTGAGTCTCATGTTCAAGCA
GTCTTTGTCCATGAAACTGGGAGGCGACCGTGTTAGCTGCCAGTTCCTGACAGCCACCTCTCACCAGTGGCTTCA
CTCTGTGTCCCTGACCCAGCACATGGCACAAGAGTGCTGCCATCCGTCAGTGTTTCTACAGCAGCAATCCCTAG
ATGCTGGAGCTTAGAGGGGACCTGACCTGAGAGAAGATACCTTCAGTGGCTGCCAGGCTGTTCCCTTGGAACCTGTG
CAGGGATGAGGCCTGCCCTGTGTTAATACACCTAGTGAGGAGTGAGCTGAATTTGAATGCAAGCCTTGGCACCTT
AATTGAGCAAGTTTGAAACCTCGCTTGTGCCCCTTCTGGAAGGAGTCAGGAATTTCCAGTTCTGGGCCTGGGCTG
TGGGTCTGGCAGACAGACCTCTGGCCCTAGGTTTGGGTGCCAGGTTCTCTGCTTCCAGAATGAGAAGCTTTGCTG
TGCACCAGGACCTGGGCCCTTTTGGTATCTCCTGAATGACACACAAGGGATATTTAATAAATATGCATTTAAATA
TGTG

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FIGURE 1658

MKLGGDRVSCQFLTATSHQWLHSVSLTQHMAQECLPSVSVSTAAIPRCWS.

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FIGURE 1659

CGCTGTAATTTTCACAATATTTTAATTCTGTTCTGAGATCTACAAATATCTCTACATAACACCAAAGCCAGTGAT
TTAATAAATAAGAGGAATGTATATATCGCTTTGCAAAAAAATGCCTGATACATTTATCTCTATATAAGATATTTG
TAGAATCAGTTTCCCAAGGCTCACGAACTAAAGTGCACACACACACTTTCCAATACCAGTCGGCATTACCCG
CCCTTTGGTTTTCTTTTGGTTTTGATTTCAGCCCCCATATCATTCTGGTAACAGAGCACAGCAATAGAATTTCTG
GGAAGCAGACCTTGTGAATCGTGCCTGTGTCTTAATTACAAAAGGGTAAGTGAATGCCGTTGAAAGGTGTTTCAT
ACACTTACCCAGAAATGAGAGCCTGTCTCATGCAGGAGTCGGGAGGCAGCGATGTCAGGGAAGTGGGACTATGT
CTTTATGACTGTGATGGTGGTAACCAAGTGGGGTGGTCCCTCTGGGGAGCTGAGTAAGAACGCAAAGGTTTGGG
TCAGTGATTAGGAAGACTATAATATGACTTTGTGCAIGCCCGGAGGGCTGCCCTGTAGAGAGGATGTGAGCAGC
TTAGTCGCTCATCTGGCCCTGTGATTGAGGCTTATGGAGCGTTAAGAATAACAGCTGTCAAATGGCCTAGACATG
GTTAATGCAATTTGTTGCTAGTGGAATCCTGAATTGCTTCCTTTCTGTGATCACTGCTACTTCTTAAGATGCTT
TTGATGAATGTCATCTGCCTTACAAGTTGACACCTGATAACTTCTCCCTGATGGGTTTCCGAACCTGGCTGACTTA
ACCAAAAAGCCAGCTCTTGCCATCTATCTTGCATTAAAGGAATTCCTGAGGCTCCTAAGGGGTCAGCTGCCCA
CTCCTGACTTTTTTATTTTAAATGGTCTATACCTTCTGCAACATTTTTGTTTTATGGCCATTTGAATAGTTGGACT
TTGACTCCTCACTTGTGAATAATAGGAATATATTTTGCAGAATCTAACATAATACCCTTAAATTCATACTGGAC
AACCATCAGTGTGATGTATAGTATCTGGTGTAAACAAATTTTATTCAGCATATTAAATTATTCTGTGTTTTGCTT
TTCCCTTGATATGTAGGAGGTGCACCAGTACCAGTTTTTCTCTGTGGTGGCTTAAAACGCTGATTGCCATTTGCA
TTGTCTACTGAAAAGCTGTGGCAGCGAGTGGTATTATTGACCATGTGTTCTCATGTCTTTTTGCAGATTTAAAGG
TTTTATTGTAGTGTCCATTTAATATCTGCATGTGTGTTAATCTCTGAATACCATGTAATTAACTGATTAACTT
GTGATGGTGATGGTGATTAGCACACACTAAAAACCAATGAAGCAATTGTCTCCCTCTTCTTAAGTGGAAATCAC
ACTTGTGAGGTATGGTATCCATTATCAACAGTGGATTGATTGACTTCATATTTTGTGTATCTGGTTATAAAT
TTTGATAGCATTTAATTTGGCACTTAATATAAATCCATTTGATTTGAATAGTGTGTGTGTGTACATGGTGTGTG
TGTGTGTGCACTTTAGTTTCGTGAGCCTTGGGAACTGATTCTACAAATATCTTATATAGAGATAAATGTATCAG
GCATTTTTTTGCAAAGCGATATATACATTCCCTCTATTTATTAAATCACTGGCTTTGGTGTATGTAGAGATATT
TGTAGATCTCAGAACAGAAATTAATAATTGTGAAAATTACAGCTTAATAAATGTTTATTGTAATTTTGTGTATG
GACTTTTAAATATATCTCATCACTTCTAACCAAA

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FIGURE 1660

MFIVILLYGLLKYISSLLT

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FIGURE 1661

GCGCGCTGTCCTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGGCGGGGCCT
GGGTGTCCGCCCAGTGCCCGAGGACGCAGGCTTTGGCACCAGAACCCCGGCATCAGAGGCAACCCCGCGGCTCCTG
CCAACGGTCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGGCTGCTGCCAAAAAACCTCAGTCGGGAGGAGCTGGT
TGATGCGCTGCGGGCAGCCGTGGTGGACCGGAAAGGACCTCTAGTGACGTTGAACAAGCCACAGGGTCTACCACT
GACAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGCCAGTCCCTAGGGCTCAGGGAGCA
GGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTAATCCTCTCCAGCTGTCCCAGACAGC
TAGTCGCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCACAGCCACCTACTGTGCTGTCACTGA
TGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAACACATTGATGGGGTCAATCTCAC
AGTTCCAGTGAAGGCCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAGACTCTCAGTCACTTTCGTGTGGT
AGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTTCTCCAGTCAACTACAGGTGCACAT
GGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTGGGCACTGTCTGGGCCAGCGATT
TCTGCTGCCAGCTGAGAACAACAAGCCCCAAAGACAGGTCTGGATGAAGCCCTCCTCAGACGCCTCCACCTGAC
CCCCCTCCAGGCTGCCCAGCTGCCCTTGCACCTCCACCTACATCGGCTCCTTCTCCAGGCACCAGGGCCAGGGA
CACCCCTGTTGAGCTCCTGGCACCCTGCCCCCTTATTTCTCCAGGACCCTACAGTGCCTGGGGCTCCGCTTACA
ATAGTCTCTCCCTCTGTTCCCTGACCCCTCACACACACTGGAAAGTGAGGGTGGGGGCTCTGCAGTCAGACAAACC
TAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGTAACCTTTACCTCTCTGGACTTGTG
ATAATAAAAGTTCTACCTCAAAAAAAAAA

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FIGURE 1662

RAVLAREMDGRRVLGRFWSGWRRGLGVRPVPEDAGFGTEARHQRPGRSGPLGDQPPFAGLLPKNLSREELV
DALRAAVVDRKGPLVTLNKPQGLPVTGKPGELTFVSVLPESQSLGLREQELQVVRASGKESGLVLLSSCPQTA
SRLQKYFTHARRAQRPTATYCAVTDGIPAASEGKIQAALKLEHIDGVNLTVPVKAPSRKDILEGVKKTLSHFVW
ATGSGCALVQLQPLTVFSSQLQVHMLQLCPVLGDHMY SARVGTVLGQRFLLPAENNKPRQVLDEALLRLHLT
PSQAAQLPLHLHLHRLLLPGTRARDTPVELLAPLPYFSRTLQCLGLRLQ

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FIGURE 1663

GGCACGAGGGTGGTGAGGCCTACAGAAGCGGCCTTCAGCTGGACCTTGGTCTCCCCGCCGGACTTCGAGGGTGTC
ATCGCCGCCCTGTTGGGGGTGAGCGCCGCGGGCTGCAGC**ATG**CCTCACAGGAAGAAAAAGCCCTTTATAGAGA
AGAAGAAAGCTGTGTCTTTTCACTTGGTCCACCGGAGCCAACGAGATCCTTTAGCAGCAGATGAGAGTGCACCCC
AGAGGGTTCTATTGCCACACAAAAATAGACAATGAAGAAAGCGAGCAGAACAGAGGAAGTATGGAGTGTCT
TTGATGACGACTATGACTACCTGCAGCACCTGAAGGAACCATCTGGGCCTTCAGAGCTTATTCCTCAAGTACCT
TCAGTGACACACAACAGGAGAGAGGAGAAAGAAGAAACGCTAGTAATTCCAAGCACTGGAATTAAGTTGCCTTCAT
CAGTGTGTTGCTTCAGAGTTTGAGGAAGATGTTGGATTGTTAAATAAAGCAGCTCCAGTTTCAGGACCTCGACTGG
ATTTTGATCCTGACATTGTTGCAGCTCTTGATGATGATTTTGACTTTGATGATCCAGATAATCTGCTTGAGGATG
ACTTTATTCTTCAGGCCAATAAGGCAACAGGAGAGGAAGAGGGAATGGATATACAGAAATCTGAGAATGAAGATG
ACAGCGAGTGGGAAGATGTGGATGATGAGAAGGGAGATAGCAATGATGACTATGACTCTGCAGGCCTATTGTCAG
ATGAAGACTGTATGTCTGTGCCCGGAAAACTCACAGAGCTATAGCAGATCACTTGTTCTGGAGTGAGGAAACAA
AGAGTCGCTTCACGGAGTATTGATGACTTCCTCAGTCATGAGGAGAAATGAACAGCTGACCTACATGATGAGA
GGTTTGAGAAGTTTTATGAGCAATATGATGATGATGAAATTGGAGCTCTGGATAATGCAGAATTGGAAGGTTCTA
TTCAAGTGGACAGCAATCGCTTACAGGAAGTTTTGAATGACTACTATAAAGAGAAGGCAGAGAATTGTGTAAT
TGAATACCCCTTGAACCCCTTGGAGGATCAAGACCTGCCAATGAATGAGCTTGATGAGTCTGAGGAGGAAGAAATGA
TTACTGTAGTCCTTGAAGAAGCCAAAGAGAAGTGGGATTGTGAATCTATTTGTAGTACATACTCAAATTTATATA
ACCATCCACAGCTTATCAAGTATCAACCAAGCCCAACAAATTCGAATATCTTCTAAAACAGGAATACCTCTCA
ATGTCTTACCAAAGAAAGGACTCACAGCAAAGCAAACCTGAAAGAATACAGATGATTAATGGCAGTGATCTTCCTA
AAGTATCAACTCAGCCACGTTCTAAAAATGAAAGCAAAGAAGATAAAAGAGCAAGAAAGCAAGCTATAAAAGAAG
AGCGCAAGGAACGAAGAGTGGAGAAGAAAGCTAACAAATTAGCATTAACTGGAGAAAAGAAGGCAAGAAAAAG
AGCTGCTGAACCTGAAGAAGAATGTTGAGGGTCTAAAGCT**ATAG**ACAGTGGAGCATAACAGGGCAAGGCACCTTAT
TAGGGGCTCCTCATCTTTGGTTATTGACTAGAACTTCAGAAAGACAAAACCTGTTGCCATTTTACTGGCAGAT
AAGAGGAAAATACAATATTTGTATTATTTTATACTAGTAAGTGTCCCTGCCAACCATCTTGTAATATTGTAA
TACTTTAATTTTAAATATTATAAGCTTACATTTGCTCTGAAGTAAATGACTTCATGAATGTGAAATGTTTGATAA
ATTAAAGGAAAATATCTTCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1664

MPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGVFFDDDDYDYLQHLKEP
SGPSELIPSSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEEDVGLLNKAAPVSGPRLDFDPDIVAALDDDF
DFDDPDNLLEDDFILQANKATGEEEGMDIQSENEDDSEWEDVDDEKGDSDDDYDSAGLLSDEDCMSVPGKTHRA
IADHLFWSEETKSRFTEYSMTSSVMRRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEV LND
YYKEKAENCVKLNTLEPLEDQDLP MNELDESEEEEMITVVLEEAAKEKWDCE SICSTYSNLYNHPQLIKYQPKPKQ
IRISSKTGIPLNVLPKKGLTAKQTERIQMINGS DLPKVSTQPRSKNESKEDKRARKQAIKEERKERRVEKKANKL
AFKLEKRRQEKELLNLKKNVEGLKL

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FIGURE 1665

TGCTGCTGACTATTGTTGGTGAAATATTTTCACCAACTAAAGGAAATAGACATGAAAAACAATGACAATATTCAA
TCACAGCAGTAAGATGGCCTTTGTGTTGCAATCCCTTCTACCCCATCAGACAGCTCCTATCTAACATTCTCTAT
ACAGTTCATTTCTCTACAAGCATTTTCTGATTCTTAGATAACTCCAATTTTGCTACCTTTATCTTAGACATTAA
CACTATAGCCCAAAGCATAGTTACTTTGCTAAATCAGAAAGCAACTGAGTTCTTTGTTTTCTCCTCAAATAGAAT
GGGGAACGTACACAACATTCTCTTAAGTTCTAACAGGAATACCATTGTGGTGATAGAACTCAGGGCTGCTAAGGC
AAATACTCTAGACCCATAGTTCTTTTTAGTTAGATGTATTGAAACAGACAAAAATATTAACATCAGAAAAAGCTC
TTGCCAATTAGAGGATCTTCTTAATCTTCAGCAATTAAGTTTGGGGTTTGAGCGGGGCAGGTCATTGTTACAACA
GAAGTAAATTTGGCATCTATAGAAATCAATTATGATTTTTGAAAGATTTATCTAAATATATCTATATAGCATCTC
TTTAATGTTAGTCATTTATTAGAAAGATCCTTTATCCTGATTTGCTTAAACCTTTCAATAAATTGCACTTTAAAG
GATTATAAATAATCCATTTAAAAATTCAAGTACACACATCAGTGTTGGTTACTATGCAGAGAATGTCATTGTGTA
TAGTTTCATGTAATCTGTTATGTCAGCTGTATTTTTATTAAAAATCATGTCAAGAAAA

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FIGURE 1666

MQRMSLCIVSCNLLCQLYFLKSCQE

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FIGURE 1667

CACAATAATTTAAACAGCTTTCTTATTTCTTAACCTCTCTGGGTATTTTGTGTGCTACTGTATCTTGTGAATGAA
TCTCAAGAGGAAGGATGAAGCTTTTCCAAAATCACATGCCTTCATCTCATTTTACAGAAAAATTTGTGCCTAATG
TTAACCAGGAAGGAAATGGGGAGCGGCAGGGCCAGTGGGTTTTCATGGTGAAGTGAAGGTTGCATCTTGGACAGGTT
GCATGTGGAAGGGACAGCAGGGTTCCCAAGGAAGCTTGCACGGTCATGGGTAGAGCCATCCCTTCTTCATCCAT
AGTGAATATGGCTGGAAATAGCGGGTAGTCTTGGATTTGACCTCCCTCCCATGGAAGTGCTGTCTCCAGCTCGCT
CCTGGAAAACTGCTTTCTCCCCAAAGTGTGTCTGAGCAGCAGATTAAAGCATGAAGTTGGTTTTGTGGGGCTAC
AGTATGGACTTTGGGAAGATGGTGCCATCTGTATTTCTGATTCTACCGTCCCTCTGTCTGTCTTTGGAAGTATCC
TTTCACTTGTTTGGGAGACTGAGAATGATTTTCTGCAAACAGTGAGCCAGACCATGCTGGTCTCAAGCGGCAGAG
CAGTTATTAACAGAATCACAGTCTTTCTGGAGCTGTGTCTAGTCCCTGTGTCTCTCAGGGCCTTTGCTTGGTCA
GGGGCCCCACTTCTTATCCACCCCTCCCTCTACCTCACCGAGGCTGCTAGGCCAGGTGTATTGTGATTATTGTA
TGTACCTGGGAGGCCATGTCTCCCGGGGAGGCTCAGGACCTCATTGGGCTGGAATCCACAGGGATCTCTCATTG
GGTCTCTTTGGGCCTTTGGAGAGGGGAGTGCAGGGCACCACCTGGGCGAACACCTGTGCCATCCTGTAAGTCCTT
GTGTGACTCTTCATCCAAGTCAACAGGGGCATGTAGGGGAAGAGCCTCAGGGCCCATCAGGAGTCAGACCCTGAC
CAGGAAGTCAGAACTGAATCAACTTTTCAATAAACACACAGGCTGGCCCCAAACAAAGCAGCAGGCTTTTGGGAA
CATCTGCCTTTTTCAGTCTCTTCTGAATTCGTATTATGTGGACACCCCATGTCCCGCACCACCATTGCCGCCAGCA
ATGTTTGTGTGCTTGCCAATATTTGAATAGATGCTGATAAATTTGATTCTCTGGCTTATTGTGGCATTTCATGATAT
GTCTTTCCCTTTTCAGTTTCCATGTACTAGAGCGACTGTCTAGTGTGGTTGGCAGTGACCTGTGTTTTTCATGCAT
GTTTTGTTTCAGAATAACTGGGAGATGAAACAGGAAGCTCTATGACACACTTGATCGAATATGACAGACACCGA
AAATCACGACTCAGCCCCCTCCAGCACCTCTACCTGTGCCCCGCGATCACAGCCGGAATGCAGCTGAAAGATTTC
CCTGGGGCCTGGTTCCAACCGCCCACTGTGGACTCTGAGGCCTCTGCATTTGCGGGTGGTCTGCCTGTGATATTT
TGGTCATGGGCTGGTCTGGTCGGTTTCCATTTGTCTGGCCAGTCTCTATGTGTCTTAATCCCTTGTCCTTCATT
AAAAGCAAACTAAAGAAAAAAAAAAAAAAAAA

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FIGURE 1668

MTDTENHDSAPSSSTSTCCPPIITAGMQLKDSLGPGSNRPLWTLRPLHLRVVCL

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FIGURE 1669

GTGTGTTGCAATAAAAAGAATTCTTTACTCTGTTTGGGATTCTCGCCATCAAGGTTCAAAATCCCTTTATATAAC
TCCCAAGAGGAGAAATTTATTAAGTGTGTGCTTTCTGGACAGCTTATTCTTTACTCTGCATAGAACATTTAGGTT
TTAAAACTTAAATGTATACTGACAATTGATACATAATTATGAAGTAAAGTTGAATTCTTCCCTTCCCTTCCCTT
CCAGACAACCTTTTAAACATATTTAATGAGGGGAAAAGGTACTGGCTGGGAGAAGTTAACTGAGTTTATCATCTT
TACAGAATGCTAATGCTGTCTCAACTGATTATTTTATATACATATATATGATACATGAACTCTGGGATCAGAT
GCTTTTAGAAGCCATCATGCAAGCCAGTCATTGATGTCACTGCTACACAACACTGCTAACTTGACTGTAGCTATG
TAATAACATTAGATCCCTAATTGTAATTATATTGGGTTTGACAGAACACTTTAATCTTCCCTCACCATGTG
AAGTGAGGAATCAGGAGTCAAACGTAGAACTAAATTTGACTTCAGTCTAGCGTTTCCCTTGGTGTTTTAGGTT
GCTTTGGTAAGTTTAGGTTTGCTATATTTCTGATTGCTTAGAATTTTGTTTAGCCCTTTAAATCAGATCATAA
ATATGAATTCATACTTCTAAGGAATTTTCTTGCTATAAGCTGGAGTTTAGGTGATGTATAGGTTTCAAGTGTAGACA
TTTTTGAACAGGCAAACTCTTAGTTAACATAAGATTTTAAACAGTTGAAGATAGTGTATGGAATTTTATCTTT
TTTAGCAAGTAATGCTAAGAACCCTGGCCTGAGCTACTACTCTTCACTATACATTATTAGGATTGCATAGACTT
ACTAGAGGAACAGTTTCAAGTTTGTATGCTAATCAGTGTGTGCTTAAAGTTGCTCTTTTGTGCTTTTAAAGT
TTTGATATATCTTCTAGTTTAAATTTGCTTATTAAGGAATTCATTTTATAATTGCAGTGGGAAAGTAATGGTCA
AGTAACACTAGGTAGACTATCATGCCTGTTTAGCCAGAGAATTTGGGGGAGAGAGAATAGATAAAATGGCAC
CCAGAAAAATGTTAAATCTTTAGTCAAGACTAGAATTAATACAATGTCTACACTTGTATGGCAGAAATAACCT
TATAAAGTGTTTAAGGAATTCAGAGAAGGAATGTACCAATAAGCAACAGGGAGAAAATAGGTAAGAAGTAAG
ATACGAACGAGAAACCTGATTTATTGCTCATCTTCCCTTGCCTCCCTAATGGCAAGCAAACTCTGAACATCTG
AAAAGGATGTAGTTCTGGACAAATCCTGACTACCCAGAGGAACTCACTGTGAGATTGCTGTTGATTTGAAGGT
GCTTTCACTAAGGTTATATTTTAAAGTAGAATAACACATGCTGAGTGTAAGTGGCTTTGGATTGGTCAGCTGCA
GTAGTACAAAAACAGCATAGAATTTGAGAAAACAAAACCTGCTATGAGATAGCTATGAGAAAACAAAACCTGCTA
TGAGATAGAAATGATGTAAATTTATGTGAAAGTTTCCCTCATATACTCACATACAGCCTTTGAAGGGCTCTGG
CTCTGACCGGTTGATGGCCTTGAGCGAGATGAAATCATGAAATTGAGTCAAATCAATTTGACATTGAAATGACAA
GAGGAACTCTTAAATACATAAAAAACAAGCTCTCATTTGCCTAGGATAGATACTGTCTTAAAAATAAAGACTGAA
CCTAGATGTTCTGAGCACTAGCAACAAGGTATTTTAAACAAGTTTAAAGGAATTCCTGAAAAAGTTATAAAATTA
TTCTAGGAAACATAACCATAATAGTGTTTTAAAGGACTTTACCTGGGGATTTTATATTATGAACAGAGTGTAT
TCTGTATTTAAATGTCTCATTTGTGGGAATTGGATGACATGTTTTTTGATAAATTTATTCACAATATAAATTGA
CTTTTTATCTAGGACCATGTGAATAATGGGTCCATTGACAAAATACAAATATTTTAAATAGCTTCTTAGGCAGT
GGTGTAGACATCTTGATATAAATAATTGTAGATCTTGTATATTTTATTTTAAAAAACTAGAATAAACAGAGAG
GCATAAACATATCTTAGAGTCCAAGTGGTAGTGTTTAGCATTGGATATAATAAATGGATGTTTTACAAAGTGTTT
CCATAATCTCTTCCCTATACATAAATGTCTTGTTTTCAAAAGTGGATGG

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FIGURE 1670

VVAIKRIHLLCLGFSPSRFKIPLYNSQEEKFIKCVLSGQLILYSA

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FIGURE 1671

TGGATTTTAAAAGTATTGAAGAACAACAAAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTA
AAGGTCTAAAGGTGGAGATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGC
CCGCCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCCAGTATTTCA
AGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGTCGGACAGGAGCAGAAACACACCT
ACCTTCCCCTGGAGGTCTGTAACATTGTGGCAGGACAAAGATGTATTAATAAATTAAACGGACAATCAGACCTCAA
CCATGATCAGAGCAACTGCTAGGTGGCGCCCCGATCGGCAAGAAGAGATTAGCAAATTGATGCGAAGTGCAAGTT
TCAACACAGATCCATACGTCCGTGAATTTGGAATCATGGTCAAAGATGAGATGACAGACGTGACTGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGCGCTTGGGACATGC
GGAACAAGCAGTTCACACAGGCATCGAGATCAAGGTGTGGGCCATTGCGTGCTTCGCCCCCAGCGCCAGTGCA
CGGAAGTCCATCTGAAGTCCTTCACAGAGCAGCTCAGAAAGATCTCGAGAGACGCTGGCATGCCATCCAGGGCC
AGCCGTGCTTCTGCAAATACGCGAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATG
CGGGCCTGCGATGGTGGTGGTCTCCTGCCCCGGAAGACGCCCGTGTACGCCGAGGTCAAGCGCGTGGGAGACA
CGGTGCTGGGGATGGCCACGCAGTGCCTGCAGATGAAGAACGTGCAGAGGACCACGCCACAGCCCTGTCCAACC
TCTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCTGCTGCCCCAGGGCAGGCCCGCGGTGTTCC
AGCAGCCCGTCTCTTTCTGGGAGCAGACGTCACTACCCCCCGGGGATGGGAAGCCCTCCATTGTCG
CCGTGGTGGGCAGCATGGACGCCACCCCAATCGCTACTGCGCCACCGTGCCTGTCAGCAGCACCAGGAGGAGA
TCATACAAGACCTGGCCGCCATGTGTCGCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGCCCACCC
GCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCACCACGAGTTGCTGGCCATCC
GTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGGATCACCTTCATCGTGTGTCAGAAGAGGCACCACA
CCCGGCTCTTCTGCACTGACAAGAACGAGCGGGTTGGGAAAAGTGAAACATTCCAGCAGGCACGACTGTGGACA
CGAAAATCACCCACCCACCGAGTTCGACTTCTACCTGTGTAGTCACGCTGGCATCCAGGGGACAAGAGGCCTT
CGCACTATCACGTCCTCTGGGACGACAATCGTTTCTCCTCTGATGAGCTGCAGATCCTAACCTACCAGCTGTGTC
ACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCAGCGCCAGCATACTACGCTCACCTGGTGGCCTTCCGGG
CCAGGTACCACCTGGTGGATAAGGAACATGACAGTGCTGAAGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAG
ACCACCAAGCACTGGCCAAGGCGGTCCAGGTTACCAAGACACTCTGCGCACCATGTACTTTGCTTGACATGTTT
TAGTGTTTAGCGATTGTGTACCGAGTGGGATTACGAGACCAGCTACACTCAGACCAACAGATGGCCAGCCCTTC
CGTGACAGCCAGCATCGAATGAGACGTCATTGATTTTATTAGATTCTCCGTTTTCCAGAATGCCTTCCGTCCC
AGATTTCAAACCTGGATTTTGAAGTGCAGACCTGTATGAGAACCCTAATGTCATAGGAAATATGGTTTGCTAAAT
CTATAAGCTGCTTATTAACACAGAGTCCCGTGTGTCCTAAAAATCTCCTAAACCAGTCTATGAAGTCAAGGCTT
TAAACATTTTTAATTTATTTGGTCATTCAATTTACTTGTTTTTAATACATGATTCTCTATGAAATTGATGGGCT
CAAAC TAGCTGTGAATCTTCTGAGAGTGAAAGCAACACAAAACACAAGTGTGGTTTTAAAGCCTTGAACATTCTG
ATGTTGTCACTAAAGTTGATTTCCAGGCGATGCTCGTGTGCCCCGGCGTGGCTCACCCAAGTTCCTCGACTGAG
GGCCGGTGGCCATGCAGAGGCGTCCGAGGTGCCGTGTTCTGCCAGCACCGCCCTTACCCGGCCTGAACCTAAGG
AGCAGTGGCAGAAGGTGGGCCCCGTGTGTTTACAGCATTTCCAGGTCCAGAGAGGTGGCAGACAAGTGCCATTT
TAATAAAAAATGTATTTAAAAAAGAAAAAGACAATATACTGACAGTCTAATCATCAGATTTGTCCTATAGGAC
TGTGACATTTATTTCCAAAGTTTTTAAAGAATACGGGTCTGTGGTGATAAATACAGTACAATCCTTTTTCACTG
TTATGCTTTAATGTAAGAGAAGATATATATCTGTTTGAGTAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA
AAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA

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FIGURE 1672

MRKRYRVCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEV CNIVAG
QRCIKKLT DNQTST MIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGG RN
KAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTQLRKISR DAGMPIQGQPCFCKYAQGAD
SVEPMFRHLKNTYAGLQLVVILPGKTPVYAEVKRVGDTV LGMATQCVQMKNVQRTTPQTL SNLCLKINVKLGGV
NNILLPQGRPPVFQQPVI FLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEI IQDLAAMVREL
LIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERV
GKSGNIPAGTTVDTKITHPTEFDYLC SHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSI
PAPAYYAH LVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA

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FIGURE 1673

[illegible]

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FIGURE 1674

MILGRCDLFFIFSKCISFQIKLSIETTEKKKS

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FIGURE 1675

GCACGAGGGCTACGGCCCTGGAACGGGGCCATGGAGAAGCTGCGGCGAGTCCTGAGCGGCCAGGACGACGAGGAG
CAGGGCCTGACTGCGCAGGTCCTGGATGCCTCATCCCTTAGTTTCAACACCAGATTGAAATGGTTTGCCATCTGC
TTCGTATGTGGCGTTTTCTTTCTATTCTTGGAAC TGATTGCTGTGGCTTCCGGGCGGCATAAAGCTTTTTGCA
GTGTTTTATACCCTCGGCAATCTTGCTGCGTTAGCCAGTACATGCTTTTTAATGGGACCTGTGAAGCAACTGAAG
AAAATGTTTGAAGCAACAAGATTGCTTGCAACAATTGTTATGCTTTTGTGTTTCATATTTACCCTGTGTGCTGCT
CTTTGGTGGCATAAGAAGGGACTGGCTGTGTTATTCTGCATATTGCAGTTCTTGTC AATGACCTGGTATAGCCTG
TCATACATCCCATATGCAAGGGATGCAGTTATTAAATGCTGTTCTTCTCTCCTAAGTTGAAATCAGAACTTGT
GGAAAAGAGCACTTGAATGTTGGTACTCTATGTTTGGTGAAGTTTGCTTTTCCCCATAAAACACTCCAGGAACAA
CTGACGTGACAGTTGAAGACCGTTTTGTACTAAGTCTCATTTTGTATACTGGTAAAAACTACATGCTTGATTAA
CCATTAAATGCTTGTAACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1676

MEKLRRVLSGQDDEEQGLTAQVLDASSLSFNTRLKWFAICFVCGVFFSILGTGLLWLPGGIKLFAVFYTLGNLAA
LASTCFLMGPVKQLKKMFEATRLLATIVMLLCFIFTLCAALWWHKKGLAVLFCILQFLSMTWYSLSYIPYARDAV
IKCCSSLLS

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FIGURE 1677

TTCCGGCCTTGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGACAC
TCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAGAGATTCCTTGAGAAGAGAGAACCGAACTCAATGA
AAATATTAAAAATGCCATGCTGATTAAAGGGGGAAATGCAATGCAACAGTGACAAAAGTACTTAAAGATGTGTA
TGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCACT
GGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTTCATGTTTGGCTCCCATATAAGAAGCGGCCAAATAATCT
AGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAA
AGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTTCGATGTAAC
AGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTGGC
TGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTGGAAGCTATAAGTTGCTGTTGAA
GAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGGAC
ACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAAAAAAAAAAAAAA
A

REPLACEMENT SHEET

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FIGURE 1678

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEEMGPSLDLVL
RRTHLASDDLYKLSMKMPKALKPKKKKK

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FIGURE 1679A

TGAGTTTCAGTTTATGTACTTAAATATGACTGTCAATTTTCCAATCATTTTTTTTTTCTAAAACAACTACAAAAT
TTGTTTCAGCCCAATGTGACACCCCTTGGCCTTCACATAGTGCAAATGAATTATGTATGTGTTTACCTCCATT
TTCTTCCTATTGTCCCTTCCCATCTATGAGTAGCATAGTGATTGCTTGACCGTGTCAGCTTGCTTATGTCAAAA
GAATCTTAATTATACATAAATTGTAATAATGTGTTAGTCCATGAAAATATTTCTCAGTTGGTTATCACTGCAACAG
GAACATCTCTACAACAGAAACAGAATTTGATGTGAGTACAGTATCAGATGATAGTTGTGTTTATGACATTAGCT
ACCTAAGTCATGATATCCCTTGACACCAAGATTATCACAGGTGGGGATAGCCATTGAATACATTGAGAGGGGAGC
CCACATCATCCCCAAAATGCTTATTATTGTAGAGTTTATCAGAATAAAAAAGCAAACCTAGAAAATAGTGTT
GGGAATAGTCCTTGAGTGGGTTTGGGAACGTAGTTTGGAGTAATTATGATATATCCAGCCAGCAGACGCTCAT
TAACATGTCAGGTGCTGTGTTCTGTGCTAGGTACTAAGACTATAAAGATGAATTAGACACAGCTTTGCCCTAAA
GGAGTTGCCAGGTAAAGGGTTAGGGGTTAATGTAGTGTAGAGCGGTGAGTATGAGCAAATGTATGGGGGTGGGGCG
GGGCAACTGTACAGATGAACAATCTGGAATATTAAATCAACTCACAGAGTGGCAACAAACAATACTGGAGAGCT
GGGCATGAATCCTGGAAAGCCTTGTATGGCCCTGCAAGGGAAGCCATGTTCTGAAAGCTCCTATGAGGGGAGCTG
ACTGACTCTAGATAAGTAGATTGAAAGAATTAGAGGTAAAGTCAGTGCAGCAGCACTAATCACAATTAATAATAA
TGCTTTAATTTTTAAAAAGCGGAAAAACATGAAAGGACACTTCGCAAGCTTCTCAAAACTTCTGTGATTGGAG
GGCTATTTTGTAGCAGAGTCTAGACGAAAACCTGGATCTGACTGGCTCCAGAGTAAAGATCTGAGAAATGGAACCCA
GCAATTAGATATTACAAGAGCCTGTTATCTGTCTATTTTATTTTGGTATTGTTAAATATTACAAAATGGT
TATGCTTTTTAATTCAAAATTTGACGTTTCAGCATGATGATACATTCTTGCCCTTTTTCCCTTCCATATAGCA
TTTTCCACCCAGCAAGTCAACTCTTTTTCTCTCATGGTTCTAATCCTTCAACACCTGCTGCAACTCCTGTTCTCT
ACTGCTATCCCAAGTCAAGGCAATTAATCATCCATCAGCATCAGCAGCTGCCACCGTTTCTGGAATGAACCTGCTG
AATACTGTCTTCTGTGTTTCCAGGGCAGGTCTCTCAGCGTTTACACACCTCAGCCATCAATACCAACCCA
ACAGTTATCAGAACCCCTTCATTGCCCAGTGCACCTGTTACATCCATCCACAGTACAACCACCACTCCTGTTCTCT
TCCATTTTTTCTGGCCTAGTGTCACTGCCAGGTCTTCTGCCACTCCTACCGCAGCCACTCCTACCCAGGACCT
ACACCACGGTCCACTCTTGGTTCCAGTGAAGCATTGCTTCTACTTCTGCACCTTTCAGTCCCTCCCTTTTTCC
ACCAGCTCTTCTGTGCTTCTACAGCAACCCAAATTCTGCTTCAATTGTCATCAGTTTTTGCAGGGCTCCCTTTG
CCCTTACCACCAACATCCCAAGGCCTATCCAACCCGACTCCTGTAATTGCTGGTGGCTCTACTCCAGCGTTGCC
GGTCCACTTGGTGTGAACAGTCCATCTTTGTCTGCGTTAAAGGTTTTCTGACATCCAATGACACCAATTTAAT
CAACTCCTCTGCTTTATCCTCTGCTGTGCACAAGTGGGCTGGCTTCACTATCTTCTTACTCTTCAGAACTCTGA
CTCTTCTGCTTCCAGCCCTAACAAGTGCTATGCCCCATCAGCCATCCCTACCCACAGAGGACTTCCACTCCAGG
GTTGGCCCTGTTCCAGGCCTGCCGTCTCCCGTGGCTAACTCAACTTCCACTCCCTGACATTGCCTGTACAGTC
TCCTTTAGCCACTGCTGCATCAGCTTCCAGCTCAGTGCCAGTTAGCTGTGGCTCCTCAGCCTCCCTTTTGGCTGG
CCCCACCCAGGTACCTCAGATCTGCATATTTCACTTACCCCTGCTGCAACAACCTTCTCTGTTATGATCAAAAC
TGAGCCCAACAAGTCTTACTCCCTCGGCCTTCAAAGGTCCATCTCATTCTGGGAATCCCTCTCATGGCACTTTAGG
TTTGTGAGGGACATTGGGCCGTGCATATACTTCAACATCCGTGCCCATCAGTTTATCTGCTTGCCCTAATCTGTC
ATTGTGAGGTCTCTCCAGCTTGAAGTACTCCTTTAAATGGTTCAAATCCTCTTCTCTATTTCCCTTCCACCACA
TGGTTCCTCCACTCCCATGCAACAGTATTCACTGCTCTTCTCTTTTACTTCTTTGACCAACAATTTTCTTTT
AACTGGCAACCCATCTCTTAATCCGTGAGTATCTCTCCAGGGTCATTAATAGCCACCTCATCTACCGCTGCCAC
CTCCACATCTCTCCCTCATCTAGCTCAACGGCAGCTGTTCTCTCAGGGCTTCTGCTTACGACCAAGTCTCAGC
AGCACCTTTCCCTTCAACCTGTCCACTGCTGTTCCCTCACTTTTCTGTTACTCAAGGACCTCTGTATCTTC
AAATCCCTCCTATCCAGGCTTTTCTGTCTCTAATACCCCAAGCGTTACCCCTGCTCTTCCCTCATTCCCGGGGCT
GCAGGCGCCCTCTACAGTCGAGCTGTACACCACTACCTGTGGCTGCCACAGCCCCATCCCCAGCTCCAGTCCCT
CCCAGGATTGCCTCAGCATTGAGTTCCAATTTCAACTCCGCTCTTGTGCAACAAGCCGTTTATCATCTGGACT
TCAAGCTGCAGGCAGTTCTGTTTTTCCAGGCCTTTTGTCCCTCCCGGTATCCCTGGGTTTCTCAGAATCCTTC
ACAATCATCTTGAAGAATTACAGCATAATGCGGCTGCGCAGTCAGCATTGTTACAGCAGGTCCATTGAGCTTC
GGCTCTGGAAGCTATCCAGCTCAGCCTGATGGGTTTCTAGTTATCCTTCAGCGCCAGGAACACCATTTTCTTT
GCAACCAAGCCTGTCCAGAGTGGGTGGCAGTGAATACTTTTAACTTTTATTCTCTTTCAGAGCAACATCAGAAT
TGCTGAGAATGCAATGAACAATCTGACAAATGTGAAGCTGGCCAAAAGTCGGAATGAGAATGAGGGTAATC
CTGGAGAAATTTGTGACAACAATTTGAAAATGTGGTTGCATTTTAAAGTGTGAACACTCCCTATGTAAATATGC
TGACAATAAATTTGTATGGAGAATGGTATTTAAAAAGTGTGGAGACTTTTCACCTGCTCTATAAAATTTTGAAT

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FIGURE 1679B

TGTGTATGTGATCTACATAGAAAGAATATTAAAGAGTAGGTTGAACTCTTTATAGCCGAATACAGCCTTAAATAT
GCTTGTATAGCATCCACTGGCAGAAGTAATAGTTGTGCCTCAGACTTGGGGGTTGCATGTGGCCCTGGGGGAGTT
ACTACCCCTTGGTATGCATGAGCGGTTCCCTATTAGCATCAGTGGGAACCTCAGTACTCTGTATGTATCCACAAAAGG
GAACTTGAGACCCACAGTTATTCTTAATTTCTGATATTAACAACCGTACATACTGCTGAATTTAACTCAAAATAT
TTCAGGTAAGTGAAAGTGGTGCTTAATGTAGACTATAGAATGACTTTCAGGTGTTTTCAACTGAAAGTATATATC
CAGAACTGCATCCTTATAGAAATACAAGTAAGACTTAGGATAATTTGCCTTCAAAACAGTTTTCCTAATCTCAGC
AGTATCCAGTGAGTGAAGAACACTTGACTGACTCTTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTG
GTGAATGTTTACAATTATGGGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACA
ACAAATAGAGAAGACTGGCTCTGTTAGTAATTATGCAGTATGTACTCTATTTAAGGATCTGTGGTAGTATAACAT
GAGTGAATGTCATTAATTTTGAAGTAATAACTGCCACATGTGGGAAGTAGGGGAGTAAGGAGAATGAATTCCAAT
CTGTGATTAAAAGTGTAAGTATAGACTCTACTGTAGTACATTTCAGGATCTAGAAGTTTTACTTTTATAAAGAT
GGTGTCCGGAAGATGTTGCTAATGTATTTTACTTCAACATAGGGAACAACTTTTTAAGTATATTAATAAACCTG
TATGGTTAGTTTTTAACAGTTTTTTAAAATAAACTATGGATATGACAAATATCTGTGTTTTACTAAGTGCTTGG
ATAGGCTTTCTAATTTTGTATACGTGCTAGAGTTAATTATGAACATTTTATCCAAATTTAGTTGTAACTCTGT
TTATACTACTGATTGCTCATTTCGTTTAAATGATATTTAATGTAAAAGTCATAACCAACATATGAACAGACAGAT
TTATGTCTTTAAACACAGAATGTAAGCTATAGTTTAACTCTGATACCAGTTGCTGGAAGTTGCCATTTGTTTTTCT
TAAATCTATACCCATAAACTTCTTTTAAAGATTAAAAA

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FIGURE 1680

MIHSCLFSPFHIAFSTPASQLFSPHGSNPSTPAATPVPTASPVKAINHPSASAAAATVSGMNLNTVLVPVFPQVS
SAVHTPQPSIPNPTVIRTPSLPTAPVTSIHSTTTTPVPSIFSGLVSLPGPSATPTAATPTPGTPRSTLGSSEAF
ASTSAPFTSLPFSTSSSAASTSNPNSASLSSVFAGLPLPLPPTSQGLSNPTPVIAGGSTPSVAGPLGVNSPSFVC
VKRFSDIQDTNLINSSALSSAVTSGLASLSSLTLQNSDSSASAPNKCYAPSAIPTPQRTSTPGLALFPGLPSPVA
NSTSTPLTLVPQSPLATAASASTSVPVSCGSSASLLRGPHPGTSDLHISSTPAATTLPMIKTEPTSPTPSAFKG
PSHSGNP SHGTLGLSGTLGRAYTSTSVPI SLSACLNPALSGLSSLSTPLNGSNPLSSISLPPHGSSTPIAPVFTA
LPSTSLTNNFPLTGNPSLNPSVSLPGSLIATSSTAATSTSLPHPSSTA AVL SGLSASAPVSAAPFPNLSTAVP
SLFSVTQGPLSSSNPSYPGFSVSNTPSVTPALPSFPGQLQAPSTVA AVT PLPVAATAPSPAPVLPGFASAFSSNFN
SALVAQAGLSSGLQAAGSSVFPGLLSLPGIPGFPQNPSQSSLQELQHNAAAQSALLQQVHSASALESYPAQPDGF
PSYPSAPGTPFSLQPSLSQSGWQ

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FIGURE 1681

AACCTACCTCAGTTTCAGAGAATGAAGGCATTTCAACCATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCC
GACACTATGGAGAATCTATAACAAATATAGGCCAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTG
GAGGAATGTTGTTCTCAAGATTTGGACGTTTCATCTACAACACAGTCATCTGAAACATCAAAGACTCAATGGAAG
ATGAGAAGAAGCCAGTTGCCCTCACCTTCTGCTACCACCGTAGGGACACAGACCCTTCCACATAGCAGTTCTGGCT
TCCTCGATTCTGCATATTTTCAAGACTTCAAGAATCGTTCTTTAATCTCCCACAACCTCTTTTTCCGGAAAAATGTAA
TGCAGAATAAAGATAATGCCCTCGTGGAGTTGGATCACAGGATTGATTTTGAAGTCAAGAGAAGGCCCTTGTGGAGA
GCCGCTATTGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTTCTTTAACCT
TCATGTATAAACATGAGCACGATGATGATGCAAAACCAATTTAGATCCAATCTGAAGTCTTGAAGGACATGAAT
GGCCTAAACTGATTTTTTTTTTTTTCCGTTAAATGTGTGTGTCAAGATACGGAGATTCAGGGTTAAAGTATAT
TTCAGTTTTCTTTAGGGCAACATATATTTGAATTTAAAGCACTTTATTTAAAAAAGAAAGTTTTTCAGTTCT
GAAGAAGTCATTTACAGTTTGCATCATTTTAATTATGAGTCTGACAAAACCTTCTCCAGAGAATCAAGCAAGACC
TGGATGTGAAGAAGGTTTGGGTAAACTGCATGTAAAGGCTACAAATCACAATCTGATTCCTCCCAATATAAAGG
CATATGGAACATAATGTATTAACCAAAGTATGTTATAAATCAAAATGGTCAAGGTTCAAGGTTCAAGGTTCAAGG
GATCACAAGGTGGTATCGTTTTAGATTTCTATGAAGGCTTTTCAATTTGTACATCCCTTTGAAAAATATAACAGAT
TTAAATGTTTTGAATTTAACTTGTTTAGAAAACTAATGCTTAAACAATATTTGAAGTACTGTATTTATAATT
TATTACCTCTAATTGCTTTATTTTCAAGTGTATGAGACATTACTGTTTTAATGTTTGCTTTGAACATAATTTAAGAA
CCAGATTTATTTTCTATAGTGATAAACCTTTTTTCTCAGAACTCCATCTTTGTACTCTTCAGATGAATATATAG
ACACTGTGGCATACATTTTTTTTTTCATTAAAACTTATGGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1682A

CTGGCTTCAAAGCTCAGCGACCACACTGCTAATTAAGAATGCTTATGAAGAATGTTTAAATGATATGAGGAAGACT
TACAAACTGTTTTTACAAAGTTATCAATGTGTGGATTTTATTTACATGAAAGAAAAATAGTCACAAATGTTACC
TTTCAATGGTAGTATAATAGAATATTAAATTTACTTTTATTTTCAATCTAAATTTTCTACATTCTGCATGTATTC
TCTTTATAATCAITTTGTAAACTCAGAATACTGTTGTAAAGATGTCAGCTCCTTCCCGAGGAAATACCACTAGTT
AGACTTAATACACACATTTTTTTATGTTGAATTGAAATTTTACTTGGTAAATGAATCATTCCCTTTAATCTACTCT
TCTAGATTACTGATCTCTCATTACCCAACTATCTGATGGCATCTTCGGTTGGACTGCTTCCCTACCCAGCTTCTGA
ATTCTTACTTGGGTACCACCCTGCGGACAATGGAAGATGTCATTGCAGAACAGAGTGTAGTGGATATTTTGT
TTTGTTTACAGATTATTATAAGTATAGGCCTCATGTTTTATGTAGTTCATCGAGCTCAAGTGGAAATTGAATGCAG
CTATTGTAGCTTGTGAAATGGAATGAAATCTTCTCTGGTTAAAGGCAATCAACCAAATACCAGTGGCTCTTCAT
TCTACAACAAGAGGACCCTAACATTTTCTGGAGGTGGAATCAAIGTTGTATGATTCTAATGAGATACGTGATTGT
CAAGAGCCTAGTGTGCTATCTAAGGTCTAGCAGTCACTTCACTAGTGGGCAGAGACAAGTCTAATTGTATTACA
GCACAAACAAAACCTGACTAGTTTTTAAATTGCACCATTGTTTTTTTTTTTAAAGCAAGAAATCATTTTCTGGGTAT
GTAAGTGTAAATGTAGATGCAATTTGGCTGCACCTCTTTATCATGCCGTGATTGGCCTATAGGTCTGCACCTTA
GTGTTTTTAAATGTTTTTATTTCTGTGTATTTACGAACAGAGAAATAACCCAAATATTATTTCTGCTTAGTGTCT
TTATTTATAAGCCCATGAGTAGTTTGTATGCATCTTTCCTACTTGTAAAGATGAGTAAAGATGCAGTTTTAA
ATTTATAATATTATTGGATGTTCTTTGCTTTGGTAGTCTTTCCAGAAAGGATAAACAGTGGTTTTTGT
TGTTTTATTGTTTAAAGTGGGACCCTTAGCTTCCCGTTTCTTACTAGTTAAAGAACAGACATTAATTTTCAGTT
GAATGTATTTTGCAGGCATCATATTGTTACAGGGCCATTTACACCTATTACAAAGCTTAAATCCTACCTTGTG
GGACTGAAGTGCTCTTAATATAACTGTTTATTTTCACTGTGTAATATGCAAAGCAAAAGGGAAATTATTGGTGG
ATGGTAGCTCAAAATTGGAATCTTGTCTAATTCAGTTACATTGGCTTTACCCCTTAGATTTTTTCATCAAAG
GGCTGTCCCATGCAATCTTACTAAAACATTTTGTAAATAAACTCTTTTCTTTTATATTAATAATAGGCT
TTTAAATAAAGATGTTATTCCTTTAAATGTTGGGCTTACCATCATTGAAGATGTCACCTCAGGTGGCTTGT
ATCAAAACGCCCTTTTTTAAACCAAGCTTTAAACATGTTTATAATTTTATGAAGTACATATATATGTTCCC
ATAGTCTTACGCTTTTAAACTATAAATATGCCCAAATTTTGTATTTGCCCTACTTTAAGTAGGTTTTATTGT
TGTTTTTTCAGTACTTGTCTCTGATAAGACTCAGGAATCTGAAATGTGAAATGTCTCAATTCCTTCTCT
TGTAGCATGAATCAAATGTATTATTAATAGCACTTATGACTATAGAATATAATTGGCATATGATTATATTAC
ATATGTATTCATTTTATTTTAAATAGTTTATAAACTTAATGATTTTTTTTTTACAAATGAGGTTATAGATATTA
ATGCAAATTTTCTGGTAGGTATCTCTTTTTTGTCTATGATGATTCCAATTCAGAGACCTCCCATTTGCCCTT
TCATTACGGTGAAAGCTTTGCCCTCATCTACTAAAGTACAAAGGAATCTTTGGAAGCAGATTATTCTAGTCTTA
TGCTAGAGATGAATTTGATCAITTTAATGTGTGATCTTTTTGCTCTATCAGGTATAATTGTTTTCTTTCTTTA
TAATGGGTAAGTTTTCTACCTTTGAGTAACAGTAAAGTTCAATTTATATGTCCATACCTAGAAGACCAGTGCAAA
TACTTTGAGAGCACCTGGGTCTACAGGACATAATTGGCATCTAAATCCTCATTCTTGCTATTAGTAGGAAAACA
GATATAGTATTGTAATACCTTATTCTTTTGAATCCTAATTACTCAITTCGGTTTTTTTTCTCTCTTTTGAATC
TAGTTGCTGGTTTTCTGTTAATGATTTTAGTTTAAACAATCCCAACCAACATACATTTGATTTATTTTTCTGT
CTAACCTGACAACCTTTTCTTGTGCTTCTGTTTGTGTTAGTTTTTGTGAAAGGAATCATTGTTTAAAGATCA
CTGTTTTTCATACTTGTTTTACACTTCACGTATTTTGAAGTACATTTATTTACTAAGCATTGTGACTTGAATAAT
TTCACCAAATGAATACATTTTGGTAGTTTGAATGAGTTCTTCTAATTGTTTACACTTTGCTTGGTACTTAACAA
AAATATGTAAAGGTAAAGAAATAATTTCTGTATTCTGCCAATCTTAATTTTATATAATAAATCATCCATTTT
TTCTTAAATAGTATGGATTGACTGTTTCTAAAATACCAATCTGTGGCTGTGGTTTTCTTTCTTCAGCATTT
CAGCATCCAAGTAAACAATAGTCCCTTATAGTCTGCTACTTGTATGGGTAAATTTGGTTGCTGGGTTTTAAGTT
GCACTCACAATAAATCGTGCAAAGCATTGTATGCCTTATTTACTCCATTTTAAATCCGTCATCCAGATTTATG
GCAGCAACACATATCTACAGGATACTTTTATGTTGTCCAAATATTGCTGTGAGTCATATGACTTATAAAATGTC
TCCAGTCATGTATTTATAGAAATGAAATGTCAAATTTCTCAGACTGTTAAAGTGCAGTATAAAGTTGCTTAAT
GCACACTTAAAAATGATATATAATTTCTGAATCCTATGAAATATGTGTTCTTTTTTAATCTTTGGGAGTTTTCT
TAAGTTTTACATGTTTTTTGGTTTTATGTTAATGATTTGTTTACTCTTTGCCAAATTTTGTGATGTAGGTTATT
TTACAATAGCACCTTTAAAAAAATGATATGCTAATTTACTAAGCATATTGATGCTCATTTTATTGATCAATC
TGATTTGTGAAATAACTTGAAATTTGACTGTTTGGTTTGTGAAATAAATATTACCAATCTCTGTCAATTAGAAT
GTGACTTTTATGTTTCAAGTACTGTGGGTTTTATTAGAGCCAGCCATTCTCTCCCTTGATGCACTTTGTAACC

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FIGURE 1682B

AGCTACACATGCTTTTAGGTGGCTTTTCCCTGATAGGGTCAAGTATATGACTATAAAACATTTTCTTGGAAGC
TATTAAGTTCATTAGTTACTCTTATTTCCCTTGTTGTAAGTAAAGTGGTGCAGGTATAAGCATATCCCCAGCATT
CCTGTGTGTGTAATGTGCACTGCTGATTGGACTGTTCTTGAGAAAGGTGCTGTGACATATGTCAATATTTGTT
AGCTCTGGGGATATCTTTAGAATGCTTGAGAAAGTTGCTAGGTGTGTGCCACATTGGTGCAGGTAAATCCATGCT
GTTACAGCCAAGCAGCATTTCAGAGAAAAGGAGAGTTTTACATAGACCCAGGAAAAACAGTACTAACCTGGT
TGATGGCCTTGGTGGTGAATTTTGTTCAGCCAGAGGCTACTCATTATATCAGAATGATGTTTCACTATAACACT
ATCTGATTTTGTAGATTGGTCGATTTCTGTTGTAATCAAGTATTTAGGATGTAATCTTTTTAAAGTCATTGCTTTA
ATCTGAAAAGCCATTAGAAGGGAGAGGAATCACTGTTCCACAGGATATTTAAACTCAGGAGTTCAAATAACCTC
ACATATTGAACATAAACTGTAACTTATTCACAATAAATTCIAACCTGATACTTATGAATTGCAAAGTGATTG
CTGCAAACTTTTCTAAGGTGGCTGAAGATTTAAATAGATCATTCTAAAGGGAATCAGTAAATGTCTTGATA
ATTGGTATCAAATCACTTGTGTGCCTGAGAAAATAAAGGTAATATTTTACTTTCAAAAAA

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FIGURE 1683

MASSVGLLPQTQLLSYLGTTLRMTEDVIAEQSVSGYFVFCIQIIISIGLMFYVVHRAQVELNAAIVACEMELKSS
LVKGNQPNTSGSSFYNKRTLTFSGGGINVV

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FIGURE 1684A

CAATGCTACATATGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTCTGACAAATGTCTGGAAACACTTCG
AGGTGATGGAAATGTGTTAATAGCAGTGGACACAGCAGGCAGAGTTTTGGAACCTTGCTCAACTTCTTGATCAGAT
TTGGAGGACTAAAGATGCAGGATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCAGTTACAATGTGGTGGA
GTTTTCTAAGTCCCAGGTAGAATGGATGAGTGATAAATTGATGAGATGTTTTGAAGACAAAAGAAATAATCCGTT
TCAGTTTCGCCATCTCTCTTTAIGTCATGGTCTTTCTGACTTGGCCCGTGACCTAGCCCTAAAGTTGTACTTGC
CAGCCAACCTGACCTGGAATGCGGATTTTCAAGGGATCTCTTTATTTCAGTGGTGTGAGGACCCCTAAAACTCAAT
CATTCTAACCTACAGAACTACTCCTGGGACTTTAGCACGTTTCTTAATTGATAATCCTTCTGAAAAAATTACAGA
AATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAGAACTTGAAGAATACTTGGAAAAAGAGAACTAAAGAA
AGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGA
TATTGACCAGCCATCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAAGGAAGTTT
TTTCAAACAGGCAAAAAAGTCTATCCTATGTTTCTGCCCCAGAAGAAAGAATTAAATGGGATGAATATGGAGA
GATTATCAAACCAGAGGATTTCTTAGTGCCAGAGCTTCAAGCTACTGAAGAAGAAAAAGCAAATTAGAATCTGG
TTTGACAAATGGAGATGAACCTATGGATCAGGATTTATCTGATGTTTCTACTAAATGTATTCTACAACAGAGTC
TATTGAAATAAAAGCCCGGTTACCTACATAGACTATGAAGGACGCTCTGATGGGGATTCCATTAATAAATCAT
TAATCAGATGAAACCACGACAGTTGATCATCGTCCATGGCCACCAGAGGCCAGTCAAGATCTGGCAGAGTGCTG
TCGCGCCTTTGGTGGGAAAGATATTAAAGTGATACATGCCAAAGCTACATGAAACAGTTGATGCCACTAGTGAAC
TCACATCTACCAGGTGAGGTTAAAGACTCACTTGTGAGCTCTCTTCAGTTTGTGAAGGCAAAAGATGCTGAATT
AGCTTGATAGATGGTGTCTTAGATATGAGAGTTTCCAAAGTGACACAGGGGTATTTTAGAAGAAGGAGAACT
AAAGGATGATGGAGAAGACTCAGAGATGCAAGTGGAAGCTCCCTCAGATTCTAGCGTTATAGCACAACAAAAGGC
CATGAAAAGTCTGTTCCGAGATGATGAAAAAGAAACAGGTGAAGAAAGTGAGATCATTCTACTTTGGAACCTT
GCCACCTCATGAGGTTCTGGACATCAGTCAGTTTTTATGAATGAACCAAGGCTGTGAGACTTCAAGCAAGTTCT
CTTACGGGAGGGGATTCAAGCTGAATTTGTAGGAGGTGACTTGTGTTGCAACAATCAAGTAGCAGTCCGCAGAAC
GGAACTGGACGCATTGGATTAGAAGGCTGCCTTTGTCAAGATTTTATAGGATAAGAGACCTTTTATATGAACA
ATATGCCATTGTATTAAGGACATGATGTCAAGAAGTATCTGCTTGACCTTTCTAAGAAAAAGGATTCTTATCTT
ACTCTGAGCTTTTGATGTTTTGTTTTGTAAACATACAAAAAGAACTGCGCAGAAAAACTTACATGTATCAGATTTT
TAAAAATATAAATAGAGAACATTTTGCAATGCTCAAATGAGCATTCTATCTTTGGCTTTCAGAGTGATAGAGC
TCCTAACAGGTGTACAGGCCCAAGAGTTGAAGGTGATTGTTTTCTTTACAGACTCCTTGTCTCTAGAAGGGCT
TTTTACTTGAATAAAACAATGCAACTTAGCAAACCAATTTATGGCCTTAGAGAAACATTTTGTATGAGTTCTTA
CAAAGTGTGTTATATTTCTGGAATGATAAGTGAGAATTATTTAGAAAAGACATGCTCCAAAAAACAACAAA
ACTGATAAAACAGTTTTTTCGAAACTTACTTTTAAAGCATACGTGCTATGACTCTCTCCAGTTTGAATATGCAAT
TGTTTTACAGGCAGGATGCTGTTTTCTGCTGTATTTCCAGTGATTTACTCTAGGGTAAGGTAGTACACATT
TGGTTCAGAAATTAATTTTATTTCTCTATATCTTGTTTTATCAAGATTTTGTGTGGCATTTCATGTAAATT
ATAACACCATCATTTGAGTATACATAATTCAAAGAAGTACTTGATGCAGTATAGTCTTAAGGGTTCTGCATACA
TTTTAGAAACATCTTAGCCGTAAGTTAGGTCTGTGTTAAAGTGTGTTAGTGCTCTGTTTTTAAGAAAAACAATGT
TGAACCTCACACTTTTATGTGGTGACAGTGTAATTTAATTAAGGTGTAAATGTTTTATCTCTTAGGCTTGCT
GTCTCCTAAGGTCAACCAAGCAGTGGTTGGATTTTATACACATTACTACTAAAATAATACTGAAGTTGGATAAGG
TTATCCTTTCTGTATTTGCGTCTTTCTTGTGACTAACCCCTGATATAGTATTAACCACTGTGTCAAGAGTAA
AAACAATATATGCAATTTTCATTGAACCTAAAGAGTGAAAACCATGTAAACTATTGAAACTATTGTAATCCATT
ATGCTTTTTTGAATGGCAGACCTTGATGTTTATTTCTCAAATGGTTAAGCCCTCTCTTTACTCTTAATTTTTT
TTTGAGACAGAGTCACCCAGGCTGGAGTGAGTGGTGAGATTTTGGCTCACTATAACCTCTTCTCCAGGGTTCA
AGTGATTCTCCACCTCAGCCTCCCAAGTAGCTGGGACTACGGGCACATGCCACTGCACCTGGCTAATTTTTATA
TTTTTGGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGCGATCCACCCACC
TAGGCCTCCCAAAGTGCTGGGATTACAGGCATGAATCACCACAAGTACCTACCTTAGATTTTTTGGAGGATCG
ATCTTATTTAACTATGTGTGGAACAACCCAGTAATATCAGACTCGAATTACTATTTTCAATTCTATTTCAAATGCTT
ATAAAGCTACTATTGTAGATTATAGTGTTAATGCAAAGTTTACAGACTTTTGATATGGAAAACAGATAAAACAA
TGTTACAAAAGGCAAAATATAAAGAGTATGTTTTCTTTTATAGTGCTTTGGAAAAATTTCACTTAAACTCTTATTAC
TGATATAGATTAAAGCCCTATAATGCTATTTATATCCAGGGGAACGAAAATCTGAATTTGTTTTATGATTTAAAGC
ATCTGGTTTGCATATTGTATTGTAATACTGATACAGTTTGGCTGTGTCCCAACCAATTGAATTGTGTTAATAGT

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FIGURE 1684B

TCCCATAATCCCTACGTGTTGTGGGAGGGACCCAGTGGGCAGTAATTTAATCATGGTGGTGGTTACCCTCATGCT
GTTCTTGTGATGGTGAGTTCTCATGAGATCTGATGGGTGTTTTTTTTTGTGTTTTGTTTTGAGATGGA
GTTTTGCTCTTGTTGCCCAGACTGGAGTGCAATGGCACACGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGT
CAAGCGATTCTCCTGCCTCAGCATCTCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCCAGCTAATTTGT
ATTTTAGTAGAGACGGGGTTTCTCCATGTTGGTTAGGCTGGCCTCAAAC TCCCGACCTCAGGTGATCCGCCCCG
CTGGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCTCCTGGCCCAAGATCTGATGGTTTTGTAAGGG
AATTTTCCCCCTTTGCTTGGCACTTCTTCCTGCTGCCATGTGAAGAAGGATGTGTTTGCTTCCCCTTCCACCATG
ATTGTAAGTTTCATGAGGCCTCCCCAGCCTGTGGGACTGTGAGTCAATTAAACGTGTTTACTTTATAAATT

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FIGURE 1685

NATYVQPRRKQRDEQLLTNVLETIRGDNVLI AVDTAGRVLELAQLLDQIWRTKDAGLGVYSLALLNNVSYNVVE
FSKSQVEWMSDKLMRCFEDKRNNPFQFRHLSLCHGLSDLARVSPKVVLASQPDLECGFSRDLFIQWCQDPKNSI
ILTYRTTPGTLARFLIDNPSEKITEIELRKRVKLEGKELEEYLEKEKLKKEAAKKLEQSKEADIDSSDESDIEED
IDQPSAHKTKHDLMMKGEGSRKGSFFKQAKKSYPMFPAPEERIKWDEYGEI IKPEDFLVPPELQATEEEKSKLESG
LTNGDEPMDQDLSDVPTKCISTTESIEIKARVTYIDYEGRSDGDSIKKIINQMKPRQLIIVHGPPEASQDLAECC
RAFGGKDIKVMPKLHETVDATSETHIQVRLKDSLVSLSLQFCKAKDAELAWIDGVLDMRVSKVDTGVILEEGEL
KDDGEDSEMQVEAPSDSSVIAQQKAMKSLFGDDEKETGEESEI IPTLEPLPPHEVPGHQSVFMNEPRLSDFKQVL
LREGIQAEFVGGVLVCNNQVAVRRTETGRIGLEGCLCQDFYRIRDLLYEQYAI V

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FIGURE 1686A

GCAGGATGTGATGGAAATGAAAAAACAAGGTTTCGCTAATGAAACAAATGAAAGAAGAACAAGAGAAAGCCAG
ACTGACTGAGTCTAGAAGAAACAGAGAGATTGCTCAGTTGAAAAAGGATCAACGTAAAAGAGATCATCAACTTAG
ACTTCTGGAAGCCCCAAAAAGAAACCAAGAAGTGGTTCTACGTGCGAAACTGAAGAGGTTACGGCTCTTCGTGCG
GCAAGTAAGACCCATGTCAGATAAAGTGGCTGGGAAAGTTACTCGGAAGCTGAGTTCATCTGATGCACCTGCTCA
GGACACAGGTTCCAGTGCAGCTGCTGTCGAAACAGATGCATCAAGGACAGGAGCCCAGCAGAAAAATGAGAATTCC
TGTGGCGAGAGTCCAGGCCTTACCAACGCCCGCAACAAATGGAAACAGGAAAAAATATCAGAGGAAAGGATTGAC
TGGCCGAGTGTATTATTTCCAAGACAGCTCGCATGAAGTGGCAGCTCCTTGAGCGCAGGGTCACAGACATCATCAT
GCAGAAGATGACCATTTCACACATGGAGGCAGATATGAATAGACTCCTCAAGCAACGGGAGGAACTCACAAAAAG
ACGAGAGAACTTTCAAAAAGAAGGGAGAAGATAGTCAAGGAGAATGGAGAGGGAGATAAAAAATGTGGCTAATAT
CAATGAAGAGATGGAGTCACTGACTGCTAATATCGATTACATCAATGACAGTATTTCTGATTGTCAGGCCAACAT
AATGCAGATGGAAGAAGCAAAGGAAGAAGGTGAGACATTGGATGTTACTGCAGTCATTAATGCCTGCACCCTTAC
AGAAGCCCCGATACCTGCTAGATCACTTCCTGTCAATGGGCATCAATAAGGGTCTTCAGGCTGCCAGAAAGAGGC
TCAAATTAAGTACTGGAAGGTGACTCAAACAAACAGAAATAACCACTGCTACCCAAAACAGCTCTTATTCCA
TATGTTGAAAGAGAAGGCAGAATTAAATCCTGAGCTAGATGCTTTACTAGGCCATGCTTTACAAGATCTAGATAG
CGTACCATTAGAAAATGTAGAGGATAGTACTGATGAGGATGCTCCTTTAAACAGCCCAGGATCAGAAGGAAGCAC
GCTGTCTTCAGATCTCATGAAGCTTTGTGGTGAAGTGAAACCTAAGAACAAGGCCCGAAGGAGAACCACCACTCA
GATGGAATTGCTGTATGCAGATAGCAGTGAAGTACTGCTTCAGACACTAGTACAGGAGATGCCTCCTTGCTGGCCC
TCTCACACCTGTTGCAGAAGGGCAAGAGATTGGAATGAATACAGAGACAAGTGGTACTTCTGCTAGGGAAAAAGA
GCTCTCTCCCCACCTGGCTTACCTTCTAAGATAGGCAGCATTTCAGGCAGTCATCTCTATCAGAAAAAAAAT
TCCAGAGCCTTCTCCTGTAAACAAGGAGAAAGGCATATGAGAAAGCAGAAAAATCAAAGGCCAAGGAACAAAAGCA
CTCAGATTCTGGAACCTTCAGAGGCTAGTCTTTACCTCCTTCTTCCCCACCAAGCCGGCCCGTAATGAAGTGA
TGTTTTTAATCGTCTTACTGTTTCTCAGGGAAACACATCAGTTCAGCAGGATAAGTCTGATGAAAGTGACTCCTC
TCTCTCGGAGGTACACAGATCCTCCAGAAGGGGCATAATCAACCCATTTCTGCTTCAAAGGAATCAGAGCTTT
TCCACTTCAGTGTATTCACTAGCTGAAGGGCATACAAAAGCTGTGCTCTGTGTGGATTCTACTGATCATCTCCT
CTTCACTGGATCAAAGATCGTACTTGTAAAGTATGGAATCTGGTGAAGTGGCAGGAAATAATGTCAGTGGGGG
TCATCCCAACAATGTCGTCTGTAAATACTGTAAATATACCAGTTTGGTCTTCACTGTATCAACATCTTATAT
TAAGGTGTGGGATATCAGAGATTCAGCAAAGTGCATTGCAACACTAACGTCTTCAGGTCAAGTTACTCTTGGAGA
TGCTTGTCTGCAAGTACCAGTCAACAGTAGCTATTCTTCTGGAGAGAACCAGATCAATCAAATTGCCCTAAA
CCCAACTGGCACCTTCTCTATGCTGCTTCTGGAATGCTGTGAGGATGTGGGATCTTAAAGGTTTCAGTCTAC
AGGAAAGTTAACAGGACACCTAGGCCCTGTTATGTGCCTTACTGTGGATCAGATTTCCAGTGGACAAGATCTAAT
CATCACTGGCTCCAAGGATCATTACATCAAAATGTTTGATGTTACAGAAGGAGCTCTTGGGACTGTGAGTCCAC
CCACAATTTTGAACCCCTCATTATGATGGCATAGAAGCACTAACCATTCAGGGGATAACCTATTTAGTGGGTC
TAGAGATAATGGAATCAAGAAATGGGACTTAACTCAAAAAGACCTTCTTCAGCAAGTTCCAAATGCACATAAGGA
TTGGGTCTGTGCCTTGGGAGTGGTGCCAGACCACCCAGTTTGTCTCAGTGGCTGCAGAGGGGGCATTGAAAGT
CTGGAACATGGATACTTTTATGCCAGTGGGAGAGATGAAGGGTCATGATAGTCTATCAATGCCATATGTGTTAA
TTCCACCCACATTTTACTGCAGCTGATGATCGAAGTGTGAGAATTTGGAAGGCTCGCAATTTGCAAGATGGTCA
GATCTCTGACACAGGAGATCTGGGGGAAGATATTGCCAGTAATTAACATGAATGAAGATAGGTTGTAACTGAA
TGCTGTGATAATACTCTGTATTCTTTATGGAAAATGTTGCTCTGACTTACTAGGCAAAACGTATGAATCGGATT
AACTGGAAAATATATCTGAATCAACTGCTGACTATAAATGGTATTCTAATAAAATTTGTGACTATCCTGTGTGC
TTAGTTTTAAGATCAACCAATAGATATATATCTACAATTGATATATTGCTTTATTCACACTTTTATTGTGGCIG
AATTTTTGTGCCTATCTATAAAACACACTTTCAAATTATTTGAATTACCAAGACGTCTGCTTTTGTGACAGTCAG
AAAACACACCTGGAATACGATGCAGCCACCATTAACTCATTGATGATTTTATTCAAGTGATTTATGATTTTAA
ACTAAATATTGAAAATGTTAGTCAAATTTGTGGTTTGTCTGTGAGGATTTTATATCAGTCTGTAGTGGATTCCCAA
ATTTCAAAGCTCTTTTAAATGTAATGGACAAAAATAAGATATGAGAATATTATTGATGAATTTTATAAGGTGGAA
TTGATCTTAATCTACTAACAGAGAAGGGTAGACAGTTTGTGTTAAATGTTGGCATTACTTGTATTGACCAAAGT
TTTGCAGCTCTACTATATTCTGTGCTCAGGACTAAAATGCTGTAAATTTTTTTTTTTTTTCCAGTGTGTGCAT
ATATTCTGTGATGGGAAACATTGTTGATGTCTAACAGAAATATATTTTGATCTATTTTCTATGGAGTTGTTTC
TATTATGACCATTTAATTTTGTTTTTATTTAATAGTAGTATTTCCTTCCCTTTTATCTAATTTTTTATATGCTGC

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FIGURE 1686B

TAAATATATTTTAAATATACTATGTTTGCGAACCTTGGTAGCTATGATGAGAGCTATTATCATCTGTGGTGGGAA
AAGCTATGTAAATAGGTAGATTGTATAGAGAGACTATCTTGTGTTGTGCCTGTATGAATTTTTAAAAGTTGTTGA
CTGGATTTTGCAAAGGATGTATAATATTTCTGTCTGCTCAGAATATTAATTTGTAAATTCTGCAAGTTTAATTT
TTATGTAGATGGTATAACATTTGAAAATATTGCTTAAGTGATTTTTCCCTGAAAATATTTGCTTGTAATGA
AACTTAGCTAGGGCTTAAATAAACATGTTGCTATGAAATT

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FIGURE 1687

QDVMEMKKT KVRLMKQMKEEQE KARLTESRRNREIAQLKKDQQRKRDHQLRLLEAQKRNQEVVLRKTEEV TALRR
QVRPMSDKVAGKVTRKLS SSSDAPAQDTGSSAAAVETDASRTGAQQKMRI PVARVQALPTPATNGNRKKYQRKGLT
GRVFI SKTARMKWQLLERRVTDIIMQKMTISNMEADMNRLKQREELTKRREKLSKRREKIVKENEGEDKNVANI
NEEMESLTANIDYINDSISDCQANIMQMEEAKEEGETLDVTAVINACTLTEARYLLDHFLSMGINKGLQAAQKEA
QIKVLEGR LKQTEITSATQNL LFHMLKEKAELNPELDALLGHALQDLDSVPLENVEDSTDEDAPLNSPGSEGST
LSSDLMKLCGEVKPKNKARRRTTTQMELLYADSS ELASDTSTGDASLPGLTPVAEGQEIGMNTETSGTSAREKE
LSPPPGLPSKIGSISRQSSLSEKKIPEPSPVTRRKAYEKA EKSKAKEQKHS DSGTSEASLSPSSPPSRPRNELN
VFNRLTVSQGNTSVQQDKSDES SSSLSEVHRSSRGIINPFPASKGIRAFPLQCIHIAEGHTKAVLCVDSTDDL
FTGSKDRTCKVWNLVITGQEIMSLGGHPNNVSVKYCNYTSLVFTVSTSYIKVWDIRDSAKCIRLTSSGQVTLGD
ACSASTSRTVAIPSGENQINQIALNPTGTFLYAASGNVARMWDLKRFQSTGKLTGHLGPMCLTVDQISSGQDLI
ITGSKDHYIKMFDVTEGALGTVSPTHNFEP PHYDGIEALTIQGDNLFSGSRONGIKKWDLTQKDLLQQVPNAHKD
WVCALGVVPDHPVLLSGCRGGILKVWNMDTFMPVGEMKGHDSPINAICVNSTHIFTAADDRTVRIWKARNLQDGO
ISDTGDLGEDIASN

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FIGURE 1688

CTATTTTGTGGTAGTATTGTGGAACAGTCTTGTATGGAGTGCCAGCTTAGAGGTTGTTGCAAACCTGTCTAGA
AGTGAGAGCATGGTTTTTTTTAGCCCTTTGAGAGTCTACATCTAATGAACATTCTTGCTCACCATAAATAACGT
CAAGCCTCAATGTCACCGTCACGTTGGGATACTCTTCTCATCTGGCATCCTAGACAGGACAAGGTTGGTTACCT
TTCCCTTCCATGAACCATGAACCTGTGACGGCATCATTCATCTGACTTCACCAAGCTCCGCCTGTGGGTGAGGCC
AGAGCTCCCAGTGGCAATTTTGTAGAAGAGCCAGAGGCTCCCTGCTTCCTCTAGAAATAACAGTTTCAGGGTGAAGC
ATGGAGGGTTTTAGTTCCAGACAACGGAACCATTTAGAGACAACACAGTTGGACATTTCCACTTTTTCTTTGAT
TCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCCAGCAGCAGAGAGACAGGACAGAGGGGATG
CTTGGGCGGGGAGGGACGGTAACCTGCAGAACAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGT
CCTGCTTTCCAGACTGGATTCCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTCTCTCC
GAATTCAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAGCCATTTTCATTGTACTTGATAACAGCACGA
GTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAAAGAGGGACTTTTTAAAAATTGTTCTTTTCG
TCAGAAGCCTTTTGGATGACTTACAATAGCTCTGATGAAGATACCACCCAGCGTCAGTCCAATAGGTCAGTGAG
TTTCAACAGGCATCCATCCCTCCCATGAAGGGATTCTGGTGATGGGAAGTTTCTGTAATGACAGGAAAGCATTGA
CCCTCATTGATTGTCAACTTTGGTATTAGCCATGAAAGACAGGATGCTCATTGGGTGTTCTGTAGAGTGAGGAAT
GCTGCCTATTCCCTCCCAGAACGTCTGACCCAGGGGTGTGTGTTGAGGAGCCCTGGGGGAAATGGACCAAGTTTT
CCCACAGAGCAGTATTAGGCTGAAGAGCAGGTGACTGGTAGGCCCCAGCTCCCATCATTCCCTCCCAAAGCCATT
TTGTTTCAGTTGCTCATCCACGCTGGATTCCAGAGAGTTTTCCAATTTGGGAAGCCATGAGAAAGGTTTTTAAATC
TTGGGAAGATGGAGAGAGGGACATAGGATAGTTGACTCCAACATGACAGGAAGAGGCTGGAGATTGGGAATTGGC
CATCAACCAAGCCTGTAGTAGTAAAGCCATGGTCCCGCATTGGAATTACTTGGGGAACCTATACAGTTCTGATAC
CCAGGCTCTCTAGACCAGTTCAACCAATTCTAGGTGGGGGACTCAGGCATCAGTGTGTTTCGTAGCTCCCCGGG
TGTTTTCCCTGTGCAGCCGAGCTTGGGAAACTGCCATGCTTTTTGGATGTCAAGGCGCTGTTGGAGGCTGSGTGT
GACAGCACAGAGCCAGGTTGTCTTGTGGAAACCACAGCCACGGGTTGCCACTGGCTCAGCATGSCCTCACTGCC
AGTCCCAGCCTGGCTGAGGGACAAGATGGTTTCTCTTGGGAGTTCTTGAGTGGAGCACCTTCCAGGCTTTTTGA
AAGCCAGCTGATCTGTGGAGCCTTGTTAAGGGACTCAATACGGTGTGTTGGATATTGATGTTTTCTTGTAGACTG
TCTTGTCCATCAATAAAGATGGAGGATGTCTCTCTTTGAACCCGCTTCCCACCAGTACTCTCTCTCCCTTAG
AGTTTATGAGTTATTCAAGGAGGAGACTTCTTAAAGACAGCAACGCAATTCTTGTAACTTGTGTAAATAGCCCCA
TCTTTCAGAGTGATACCATTCTACATTTGATAATGCCTGTATTCTGTAGGATGTATATAGTTTAGGGGATTTT
TTTTTTGTTTGGTTTTGTTTTTTAGAAGTCAATATGTCTGGTTTTATTTATTGCTTGAAAAAGATCATTTGAAAA
AAATAAATACATTTTCAATTCCAGAAAGGATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG

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FIGURE 1689

MSGAEKEVM

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FIGURE 1690

GCGCGAGAGGACGTGCTCTGCCAGCCAGTGGGAAGGCAGGCCGCGCGCGGGAGCGCGGGAGGATCGGCGGCTC
GCGGTCACCTGGTCCCTGGCTCGGTTCCCCGCACCCCGGGGCTCACACTTACCCGCGCGGAGGAGCAGCGGCCGGG
TGTCACCCCCATCCTGCGCCAGTCTCCTCGATTCCCTCGCTCTGAGCCGGGAGAGCCGAACAGCTGAAGAGA
GTTCACTGACTCCCCAGCCCCAGGTGGGCCTTGTGCACATCATGACCAGTTTTGAAGATGCTGACACAGAAGAGA
CAGTAACCTTGTCTCCAGATGACGGTTTACCATCCTGGCCAGTTGCAGTGTGGAATATTTTCACTCAATAAGTTTTA
ACAGAGAGAACTCCCTTCCAGCGAAGTGGTGAAATTTGGCCGAAATTTCAACATCTGTCATTATACTTTTCAGG
ACAAACAGGTTTCCCGAGTTCAGTTTTCTCTGCAGCTGTTTAAAAAAATTCAACAGCTCAGTTCTCTCCTTTGAA
ATAAAAAATATGAGTAAAAAGACCAATCTGATCGTGGACAGCAGAGAGCTGGGCTACCTAAATAAAATGGACCTG
CCATACAGGTGCATGGTCAGATTCCGAGAGTATCAGTTTCTGATGGAGAAGGAAGATGGCGAGTCATTGGAATTT
TTTGAGACTCAATTTATTTTATCTCCAAGATCACTCTTGAAGAAAACAACCTGGCCACCACACAGGCCCATACCG
GAGTATGGCACTTATTCGCTCTGCTCCTCCCAAAGCAGTTCTCCGACAGAAATGGATGAAAATGAGTCATGAACA
CAGAAAGTCTAAGAGGAGAAATATGATGGATGAAGAGCTCTGTAGATGCTGTATAGACACTAAATAAGAGTTGAT
TAGGGTAGTATATTATAGTCATCTGTTATGCTGTGAAATTTGGAATTCAGTATTATCATTTTGAAGTCTGTAAAT
TGTGTTAGTCATTAACTTAGTCACCTGTTGTATTCTGGATCTACACAAAATTATTTTAACTGCTCTTATTAATCT
GTGAGGATTAATATACAAAAAGTATCCTTTGAGATGAAGTCGTGTTCTCAAAATAAGGTTATATTATTTCTTTT
TCTGCTTGATTTTATCTTGTGTTTTGCTTTGTTTTTGTAAAGGAACCATCTCTGGTTTGGTCACATCAGTTCAC
AACAGCCATTTGTTTTCAAGGTCAAGGCTCCAGGCAGGTTGTTACTGGTGTGTTGCAGCCTGTCAGTACTTGCAGT
ACTGGAATAGGTTCTAGGCTAGTGTCTGCGCTCACTGTGGTTTTAGCATGGGAGGACTTATTTGAGAAATACTA
CCTTACTTTTCTATGATTTCTTTTTACAGAGTTATAGTGTGTTTACTCCTAAGATGACAGTTCTCTTGTCTATA
TTCAGCATCTAAGACAAATATTTAAACATTTTAAAGAACCAGTGTGTTAAGTTTAGGATTATTTACTTACCAAT
TAGAAGTTTGACTTTTTATGTGTTATACACAATCTTAAATTTTACGAATTCACCTTTTAAATAGTATCCATGTAC
ATAATAAAATCAAAGTTTAAATAGCCATTTTCTTGAATTTTTTCTAAATAAGGGAAATAACTGTTCTTGGGCC
ACTTTACAGAGATAAATGTATGTGAATGTTTATGATAAACGCTTAAATATTTCTAAATATTTAACTTCAAAAAG
TCTTTTTTCACTTCTTAAATAAAAAATTTATTTATTTAAGATACTTATTCGACTTATCTTAACTAAGGTAGCTATGA
ATGTTAAGTAGATGAGGTAACCATTCAGTTAAGTTAAATTGTAGCATTGCCAGGTAGTGAGGCTCACTGTACAAT
TTTCAGGTAAATGAAATTTCTGTAGTAAGAGGTCCGTATTTTGTAAACAGCCTTTTAAAAATGCTTTTGGGAA
CCCTCCAGCCTCTTACCAAAGAGGCTTTAAACCTCATCTTGATTGAGACTGTCAGTCTATTCTGGGCAGTAGT
ATGTGATGTCCAGCACCTAACCCGACTCCCCAGCCCTGGGACTATTCCAGTAGAGTGAAATATTTGTCCCTGT
ACAAAGTGGCCTGAATGACTGTTGGAGTTCTGTGTCTGGTTTTCTGTATTATCCCTGTGATGCCAGAGTAAT
GGCCCATCCAAAGATGTCCAGATGTCCATGTGCTAGTCTCCAGAACTGTAACTGTGTGTTATGTGGCAAAGGG
GAATGAAGGCTGCAGATGGAAGTAAATAGATTATGCTGGATTATCTGGGTGTGCCCAATTGATCACCGGATCCG
TAAAAGTGAAGAGAGGCAGATCAGGATGTCAGCGTGATGAGGTGTGAGACAGACTTGAATTGCTGTTGCTGGGA
GGAAGGGGAGGTCATGAGCCAAGGAATGTGGACAGTCTCTTGAAGCTGGAAGTGTGCATTGGACATCTGGAAGC
CAGAAAAGACAAAGAAATATCCAGAAAGGAACAAAGTCTTGTGGACACCTTGATTTTGGTCCAGTGAGAAATAGT
TTGACTTGTTAACCTACAAAATTTATGATGATAAATTTGTGTTGGTCTAAGCCACTAAATCACAGTAATTTGT
TATAGCAGCAGATAGAAAATAATACTCCCTTTAATATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1691

TACAGGCGTGAGCCACCACCCCGGCTGTATTTTCAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAA
GATAATGTCTCTTTTGAGGCTTCCTATGGACTGCCTTTATTTTAGTAAACTCAAGACACCAGTTAACCTCAACAGA
GTTTTGGCCTTATTAGAATTTGTTGTGCATCTTATTGAAAGCCAGGTTTACATCACCTACCCCATTTCTTTT
TAGTTAAATAAATTTACCATGCCAAGTAACCAGAATGGAGCAAATGGTTGATCTTTAAGGCAGTAGGTTTGACT
AGCTAGCTATCATTATTGTCACATCTAATGCTAGGCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATT
CCAGAGACACTTTAGACATTTTTTAATGTTTTATATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAT
TTTCCTAGTGCTGATAAAAACAGCAACATTCATAACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTA
ATGGTTTTCAAATAAAGTGCACCTGAATTTGTTTATGTGCCTTAAGTTCCTAGTGCTATTTCAACTTTTTTTTCA
ATCTAAATGAAGCTTACCTTAGATAAGGTTTCATATTTGTTTCCTATAGAGTAAATAAACTTCCCCTTCTTAAATT
GTGTAATAAGCACCAACGTGTGGTTGCTTGGCAGAATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTC
ATTATATTTTTTGTTTTTATTTTTTGATACCTAGGTGCTTTTTTAAAAATTCAGACAAATATCTATCTTACATTG
ATTAAACCCGTGTAAATTCATTTGCAGTATCTACATCGAATGTCAAAAAAGTATACTTATTTTTGTTCCATACTT
ATGTACAATTTTTTCCCTCTTCAGGCTTTTTTCATTTACCTTTTTTGAAAAAGCACTTACTCTCCCCTTCCCTATCA
CCCCTCCCCCAAGGTTTCTTTATTTAAATTTTTATTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGT
TGAACAAAAGTATAATCTGCTTTACAACCTAGTATAGACCTAAGGTCAATTTGCTTTCAATTAGAGGCTCCAGAGTC
TTCATAGTGGAAGAATGCTTTGTATTTAATTGTTCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTT
TTGTTTAAATATACITCTTGATAGTTTAAATTTTTTAAAGTTGTATCTAATAAAATGTCTTTTAACCATTTATA
CTTGACTATATGGTTGCTTAAATTTTGTTACG

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FIGURE 1692

TGVSHHPRLYFQRGELGVFVPSGKIMSL

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FIGURE 1693

GTGGGGTTTGCAGAGGAGACAGGGGAGCTTTGTGTACCCGGAGCAATGAACAAGCGGCGACTTCTCTACCCCTCA
GGGTGGCTCCACGGTCCCAGCGACATGCAGGGGCTCCTCTTCTCCACTCTTCTGCTTGCTGGCCTGGCACAGTTC
TGCTGCAGGGTACAGGGCACTGGACCATTAGATACAACACCTGAAGGAAGGCCTGGAGAAGTGTGAGATGCACCT
CAGCGTAAACAGTTTTGTCACTGGCCCTGCAAATGCCCTCAGCAGAAGCCCCGTGGCCCTCCTGGAGTGAGCCTG
GTGAGAGATGGCTGTGGATGCTGTAAAATCTGTGCCAAGCAACCAGGGGAAATCTGCAATGAAGCTGACCTCTGT
GACCCACACAAAGGGCTGTATTGTGACTACTCAGTAGACAGGCCTAGGTACGAGACTGGAGTGTGTGCATACCTT
GTAGCTGTTGGGTGCGAGTTCAACCAGGTACATTATCATAATGGCCAAGTGTTCAGCCCAACCCCTTGTTTCAGC
TGCCCTCTGTGTGAGTGGGGCCATTGGATGCACACCTCTGTTTATACCAAAGCTGGCTGGCAGTCACTGCTCTGGA
GCTAAAGGTGGAAGAAGTCTGATCAGTCAAACCTGTAGCCTGGAACCATTACTACAGCAGCTTTCAACAAGCTAC
AAAACAATGCCAGCTTATAGAGATCTCCCACTTATTTGGAAAAAAAATGTCTTGTGCAAGCAACAAAATGGACT
CCCTGCTCCAGAACATGTGGGATGGGAATATCTAACAGGGTGACCAATGAAAACAGCAACTGTGAAATGAGAAAA
GAGAAAAGACTGTGTTACATTGAGCCTTGCGACAGCAATATATTAAAGACAATAAAGATTCCCAAAGGAAAAACA
TGCCAACCTACTTTCCAACCTCCAAGCTGAAAAATTTGTCTTTCTGGATGCTCAAGTACTCAGAGTTACAAA
CCCCTTTTTGTGGAATATGCTTGGATAAGAGATGCTGTATCCCTAATAAGTCTAAAAATGATTACTATTCAATTT
GATTGCCCAAATGAGGGGTCATTAAATGGAAGATGCTGTGGATTACATCTTGTGTGTGTGAGAGAACTGCAGA
GAACCTGGAGATATATTTCTGAGCTCAAGATTCTGTAAACCAAGCAAAATGGGGGAAAAGTTAGTCAATCCTGT
CATATAATAAAAAAATTAGTGAGTATAAAATGGTGGCAAAATCTACTTTGTTTAAACAGTATGAATGCCATTCT
CAGATCACTACATTAAAGGCATTAGAACTTTTTAAAGATTATCTTAAAAATATACATAAAATTTGAACAACTTA
AAAATTGAACTAATTTCTAAATATATCCTATAATTATATAATACACAGACATTTGTTACCATCTAAGCATTGTG
TATATGAAAAAATTATGCAATTTACAAGAAAATATTTTACAAAATAATCTGGAATACTTGCTAAAGCTGTATAAA
AAGTATACTAAATTTTAGGCTGGGCGCAGTGTTTCATGTCTGTAATCCCAAGCACTTCGGGAGGCCAAGGTGGGCA
GATCATTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTGTAATTAATAAATAACAA
AAATTAGCCAAGTGTGGTGGCATGCGCCTGTAATCCCAAGCTACTCGGGAGGCTGAGTCAGAAGAATTGCTTGAAC
CCAGGTGGTGGAGGTTGCAGTGGGTCAAGATTGCACCACTGCACTGGCACGGAGAAGCGAGACTCCTTTGGGGGA
GAAAAAACATACTCAATTTAAAAAATTTAATCTATATTTGACAATGTAGCCTAAGGTGCCCATAGTTGATACA
TCATTATAGGGCAAGTGAAATCTAGATTAATTTCTGAACAGAAATAAGATTAAGCTGTAAATATATTTAGACTT
TTCAGTGCCTGATCTTGAATATCAGTTTCTTTTGGAAAGGAGAAAATGCAACTTTCTGGCCACTGTTAACAAC
GCAATCTAAAATTTTTTACATCAAATATTGTAAAAAGTTAAATTTCCAAGACAAAGACCAAGAACAGTATCATT
CTTTGCAAAGGAAAGAAATATAAGAATACAACCTTAAATTTAACCTGTGGATCTGAAATATAAAATGTTATTAAA
AATAAATTAATGTTAAGGCTAGAACTGAAGATTATAGTAACCGGAACAATTATAGCCATTTATTGCAAAGTTTGG
AAGATATCAAGCTTAGTAACATTCTGTTCAATTTGCATAAATGTCATGCAGAACAAATAACAAGTAGCACTGTTGAA
AAATATAGACATTTATTATAAAATCAATTGGTTTGATAAGAAAGCAATTATTTAAAAAGTTTAAATACAAATACAT
GTTAAGTGTAACAATTAGGATTCTTTTGGGCAACAAGTTGTTATCTAAAGAAGAAGCAAAACCTCCTTAACAGT
TGTAATAAACCTATGCCTGAAAAGTTGGTGGCTATTAATAAAA

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FIGURE 1694

MNKRRLLYPSGWLHGSPDMQGLLFSTLLLAGLAQFCCRVQGTGPLDTPEGRPGEVSDAPQRKQFCHWPCKCPQQ
KPRCPPGVSLVRDGCCKICAKQPGEICNEADLCDPHKGLYCDYSVDRPRYETGVCAYLVAVGCEFNQVHYHNG
QVFQPNPLFSCLCVSGAIGCTPLFIPKLAGSHCSGAKGGKSDQSNCSEPLLOQLSTSYKTPAYRDLPLIWKK
KCLVQATKWTPCSRTCGMGISNRVTNENSNCCEMRKEKRLCYIQPCDSNILKTIKIPKGKTCQPTFQLSKAEKEVF
SGCSSTQSYKPTFCGICLDKRCCIPNKSMMITIQFDCPNEGSKWKMLWITSCVCQRNCREPGDIFSELKIL

1872/2682
FIGURE 1695

GGGCTGCGGTACGGCGTGTGGTCCCAGCGGTTAGCTGAGGTAGGGACGTGCTGTAGGCCGGAATGTTACCGGC
TGTTGGATCTGCGGATGAGGAGGAGGATCCTGCGGAGGAGGATTGCTCTGAATTGGTTCCCATGGAGACGACGCA
AAGCGAGGAGGAGGAAAAGTCTGGCCTCGGCGCCAAGATCCAGTCACAATTATCACCGGGTATTTAGGTGCTGG
GAAGACAACACTTCTGAACTATATTTTGACAGAGCAACATAGTAAAAGAGTAGCGGTCAATTTAAATGAATTTGG
GGAAGGAAGTGCGCTGGAGAAATCCTTAGCTGTGAGCCAAGGTGGAGAGCTCTATGAAGAGTGGCTGGAACCTAG
AAACGGTTGCCTCTGCTGTTGAGTGAAGGACAATGGCCTTAGAGCTATTGAGAATTTGATGCAAAAGAAGGGGAA
ATTTGATTACATACTGTTAGAGACCACTGGATTGGCAGACCCAGGTGCAGTGGCTTCTATGTTTTGGGTGATGC
TGAATTAGGGAGTGATATTTACCTTGATGGTATCATAACTATTGTGGATTCAAAATATGGATTAAACATTTAAC
AGAAGAGAAACCTGATGGCCTTATCAATGAAGCTACTAGGCAAGTTGCTTTGGCAGATGCCATTCTCATTATAA
AACAGACCTGGTTCCAGAAGAAGATGTAAAGAAATTAAGAACGACAATTAGATCCATAAATGGACTAGGACAAAT
CTTAGAAACACAAAGATCAAGAGTTGATCTCTCTAATGTATTAGATCTTCATGCCCTTGATAGTCTCTCTGGAAT
AAGTTTGAGAAAAAATTCAGCATGTGCCAGGAACACAACCTCACCTTGATCAGAGTATTGTTACAATCACATT
TGAAGTACCAGGAAATGCAAAGGAAGAATCTTAATATGTTTATTCAGAATCTCCTGTGGGAAAAGAATGTGAG
AAACAAGGACAATCACTGCATGGAGGTCATAAGGCTGAAGGGATTGGTGTCAATCAAAGACAAATCACACAAGT
GATTGTCCAGGGTGTCATGAGCTCTATGATCTGGAGGAGACTCCAGTGAGCTGGAAGGATGACACTGAGAGAAC
AAATCGATTGGTCCTCCTTGGCAGAAATTTAGATAAGGATATCCTTAAACAGCTGTTTATAGCTACTGTGACAGA
AACAGAAAAGCAGTGGACAACACGTTTCCAAGAAGATCAAGTTTGTACATAAACAAGTACTAGAGGCATTTCTTATCAA
AGGATTGGATAATAAAAAATAAGTTTCTACTGGGTATATTTCAAGCATTATTTATTACTTTAGTTACGAATTCCA
ATATACTTTAAATGGTATTTGTTTTACAGCATACATAAAATGTAGCAAATCAGTACTGTAAACATTTAACATT
CATACAGTTATATATAATATCCTTTTTTTTAAAGAATGGTATTTACAAAAATATCTTTTGAAATTGGCTTTGGA
GTTTACATATACTGAACATGAAAGTTTATAATAATGATGATACAACTTTCAACATTGTCATTTTTCTTAGAACT
TCAGCIGATTGCAGAGATATAATGATTACATTGTTATTAAATTTTTTAACACAAGTAAGTGTACCATTTTATG
ACATGAAATAAAAGGTTATGACTGTTATCG

1873/2682
FIGURE 1696

MLPAVGSADEEEDPAEEDCPelvPMETTQSEEEKSGLGAKIPVTIITGYLGAGKTTLLNYILTEQHSKRVAVIL
NEFGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNGLRAIENLMQKKGKFDYILLETTGLADPGAVASMF
WVDAELGSDIYLDGIITIVDSKYGLKHLTEKPDGLINEATRQVALADAILINKTDLVPEEDVKKLRTTIRSING
LGQILETQRSRVDSLNVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMFIONLLWE
KNVRNKDNHCMEVIRLKGLVSIKDKSQVIVQGVHELYDLEETPVSWKDDTERTNRLVLLGRNLDKDILKQLFIA
TVTETEKQWTTTRFQEDQVCT

[illegible]

1875/2682
FIGURE 1697B

CACAAAAATGATGTAAATTTACATGGAGGAAAAGTAGAATCTGCCTGGTTTGTAGGCAGCAGAAGACATTTTCA
TCAGTGGGCAGGTGTTCTTTACCTTTTGTAGAAATGGGAGTCAAGTCTCAAATAGGAGGCTCCACAAAATCTCAT
GCCAGGTCTCTGATACCTTATTCACAGAAGTCTTTGAAGTATTTATTGTTATTTCTTTGACTTATGGGAAAAC
TGGGACACAGGAAGACAGGTAAATTACCCAACCTCACACGTTAAGTCAGAACTGGGAGCCATAATTTGTATCCC
TGGTATAAATAGACAATCTCTTGAAGAAATGAAGAGATGACCATAGAAAAACATCGAGATATCTCCAGCTCTAAA
ATCCTTTGTTTCAATGTTGTTTGGCATATGTTATCTTTGGAATTTAGTGTCTGAGCCTCTGTCTGTTACTGTAGT
ATTTAAAAATGCATGTATTATAATCATATAATCATAACTGCTGTAAATCTTGATTATATACCTAGGGACAATGTG
TAATGTAAGATTACTAATTGGTTCTGCCCAATCTCCTTTTCAGATTTTATTAGGAAAAAAAAATAAACCTCCTGAT
CGGAGACAATGTATTAATCAGAAGTGTAACCTGCCAGTTCTATATAGCATGAAATGAAAAGACAGCTAATTTGGT
CCAACAAACATGACTGGGTCTAGGGCACCCAGGCTGATTTCAGCTGATTTCTACCAGCCTTTGCCTCTTCCTTCA
ATGTGGTTTCCATGGGAATTTGCTTCAGAAAAGCCAAGTATGGGCTGTTTCAGAGGTGCACACCTGCATTTTCTTA
GCTCTTCTAGAGGGGCTAAGAGACTTGGTACGGGCCAGGAAGAAATATGTGGCAGAGCTCCTGGAAATGATGCAGA
TTAGGTGGCATTTTTGTTCAGCTCTGTGGTTTATTGTTGGGACTATTCTTTAAAAATATCCATTGTTCACTACAGTG
AAGATCTCTGATTTAACCGTGTACTATCCACATGCATTACAAACATTTTCGAGAGCTGCTTAGTATATAAGCGTA
CAATGTATGTAATAACCATCTCATATTTAATTAAATGGTATAGAAGAAC

1876/2682
FIGURE 1698

MHDVAYRQEKDENKWITHVNLSTKLTLQKRLQPAAMYEIKVRSIPDHYFKGFWSEWSPSYFFRTPEINNSSGEM
DPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKNLNVSFNPESFLDCQIHRVDD
IQARDEVEGFLQDTFPQOLEESEKQRLGGDVQSPNCPSEDVVITPESFGRDSSLTCLAGNVSACDAPILSSSRSL
DCRESGKNGPHVYQDLLLSLGTNSTLPPFSLQSGILTLPVAAQGPILTSLGSGNQEAYVTMSSFYQNO

1877/2682
FIGURE 1699

TTCTCTTCTAGTGATGTGGCACGGTGTCCGTGAGCTTGTGACTGCAGCGATACGCTGCXTTGTGGCGTGTGGGCC
AGGTGGCGACTACAGCAGGGACTGGCTGCCAACCCCTCCGGCTACGGGCCCCCTTACCGAGCTCCAGACTGGTCA
TATGCGGGGGTATGATCCTGCTTAATTGGATAATTGGTGAAGATGGTGAAGATTTTTCTACTTGTTA
TTTACTATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGACGTTTGCAGTGA
GTGAGACGAGTTGTACTGCTGTACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGAAGTTG
CAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCACTTCCAAGTCAA
TAAAAAGCAACTCCTGCCTCCCTTCCTC

1878/2682
FIGURE 1700

CGGGCGAGAAGGGCAGACGGGACATGCAGCCTCTTCGCGCTGAGCCCCGGAAGTGATGTGGCTGCGGCATCGCGG
CCTCGCTATGCTCTGCCATTTTCAATTTTCAGAGTCTATTGACTGTAATCTTGCTGCTTATATGTACCTGTGCTTA
TATTGCATCCTTGGCACCCAGCCTCCTGGACAGAAATAAACTGGATTGTTGGGTATATTTTGAAGTGTGCCAG
AATTGGTGAACGGAAGAGTCCTTATGTTGCAGTATGCTGTATAGTAATGGCCTTCAGCATCCTCTTCATACAGTA
GCTGGGGAAAATGCCAGAAIGTAGTTGCCATCAGATTTGATTGTGAACAAGGACTGACTGCAGAAAATAATGGAA
AGGATGTTTTAACTCTTTTATCTCCGAACATTGAATGAGATAAAATTTCCAGATGCTGTTCTCTATTTTAAATGTTAT
TGGACCAATGTTCTGTATAAACAATTAAGATGTAACCATTTAATAGTCTGTAACAATCAACCTCAGTACTGTCAC
TACAATATTACATTCTGCAAATGTTATTCTGTTGATCAGATACAAAATTTTAGTGAGGTATCTCTAAGGCACAT
AGTAGAAAACAAAATTGGTTAATTACTCAAGTTCCTTTCACTGTGATTGGAATGATTTAATCTTTATAGAATG
AGAACCTTTTTTGGACTAGCTTTTTTATTAAATGGCTCAATTTGTGTTGATAAGGATTGCATTAATATTTAATA
GTGCTTGCTTTTCTCTGGGCACACCATTTTGATCATTAAACCAGAGTACCTCTACTCTTAGCAAACCTCTAGTTTA
TGACAAGTATTTAAAATATTTAAAACAAGCTTATGCAGTTCTTAAGGACGAAGGTAATGAGATGTAACCTAAAA
ATAGTATTGGGAAAATGTTGATAGTTAACATTAGTGGATTTAGACTAGCCAAATGACATAGTAGGCTCTGAAACA
TCTTGTCAGTATATGTATTTTGTGCATGAATTTTGTCTGAAAGCTGTCTTTCTCTGAAAAACACAACGTTCTT
AGAATGAAAAGAACAATTATAAAATAAAAAAAATTTAAAAAACTGGGCGGGG

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FIGURE 1701

MSAIFNFQSLTIVILLICTCAYIRSLAPSLDRNKTGLLGIFWKCARIGERKSPYVAVCCIVMAFSILFIQ

1880/2682
FIGURE 1702

GGGAGAACGCGAGTGTTAGTTAACATGGCTTGGTGTGTGGCCACAGCTGACCCGGCGCATACCTCCCGTCTCTC
TTTACAGGGCTGGCGGTGTCTCGGGGCTCGGCTGGCCATGCCTGGAGCGCGGGTTTGACTGGGCGCGCGTTGTT
GTAGTGACCGGGAGGCGCTGCCGCTCTGGGCAGACGGTTCCGGGAGCCGCACGGTCCCTCTCTCTCCCATCCT
CTCCCTCCCTCTCCGGGTCCCCACCCACAGGAGCCTTGGGCGGACCACCTCCCGGATGGCCTCAGCCACGG
AGGACCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGGCA
AGCAACTTGCTACTGCTTCTTGGGATACCTTTCTCATGCTATGGAATTTCAAGCCACATGCTAGAGCTTACAGAT
ATGTGGGTACACAAGGATGTTGTAACCAGCGTGCAGTTTCTCCACATGGAACCTTATTGGCGTCTGCCTCAGGAG
ACAGAACCGTGAGACTCTGGATTCTGATAAGAGAGGAAAATTCTCAGAATTTAAAGCTCATACAGCTCCAGTTC
GAAGTGTAGACTTTTCAGCTGATGGCCAGTTTCTAGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCA
TGTATCGCCAGCGCTTCTGTATTCTGTATCGACATACACACTGGGTACGCTGTGCCAAATTTTACCCGATG
GAAGACTAATTGTGTATGTAGTGAGGATAAACTATTAAATTTGGGATACCACAAATAAGCAATGTGTTAATA
ACTTCTCAGATTTTCGTTGGATTTGCAAATTTGTGGACTTTAACCCTAGTGGTACATGCATAGCTTTCAGCAGGT
CTGATCAAATGTGAAAGTCTGGGATGTAAGAGTGAACAAATTACTACAGCATTACCAAGTTCACAGCGGTGGAG
TTAATTGCATATCATTCCATCCTTCGGGTAACCTATCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGG
ACCTCTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAG
GTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGTCTTATTATGGAGGACTAACTTTGATGAATTGCATT
GTAAAGGTCTTACCAAAGAAATCTCAAAGATTACATTTTGATTACACCACACATCTTCTTGATATCTACCCAA
GAACACCACATCCCATGAGGAAAAAGTTGAGACTGTAGAAGATTTTTTCTTCATCTTTTGAGATTAATCCAA
GCTTGAGGTAAATCGATTTGCAGATCTCTACTCCCCCTGTTATGGATATCCTTTCTTTTGATTCTACCACAACAAC
AGAAACCAGTGGTAGGACTCTGCCAGACAAGGCTGAAGAGGCTGTGGATATTTCTTGAACCCTTCCTTAATGTC
ACCAGATGTTTGCCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCTGTGAAAGTCAAAGGAG
CATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACTCAATGTTTGGACACAGACTGTTTCAAT
CTTGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAATCAGCAAAAGCTTTTCAGTGC
TGTCCAACAGAAAAGCTGAATAAAAAATTCATTTTCATTTGTTGGGCAGAGGCCCAATAAATGAACAAATGTACA
TACACTCAGGAAGGTAGTACAGATACTCCATACAACACAACCATGTGCTATTTATCATGGCATTCTTAAAGG
GTGAGCAACAGAACAAAAGGCAGAAAAGGCATACCTAAGGACTAATTTAAACACATATCAATGTGAAGGACTAAT
TTAAATTACTATCATTTATGATTGCAGTAATAAAGTGATAAGCATTCAAGCAACTCTGTATTTCCCATATTAT
TTTAAATGTCCATTTTCATTTATAGGCCAAATCCTGCCAGGAAAGTAACCAGATCTCTGGATTTCACTGTAAAGT
CATTTTCAGATTGACCATATTCAGACAGTCATGGGGTGAAATAATCACTTACCTCCAAAATAGCATCCTATATGC
CAATAATGAGTTATTGATCTGACTAGTTGTAIGTCTTTCTGTTCAAAATAGAAATTATCCTTTCTTACTAATGCC
TTGAAAGAATGAACAAATAAAATTTCCAGACCACAGAATTTCCACAGCAAGAATACACTATTTTAAATTAACAA
TAGCACAGATATAGCATAGGGCAGTGGGTTTTTTAGTTAATTTATGGCGTACTTTGTTTATCCATTGGCCACCT
GAAGGAAATGAAACTCACCTATCTTTCTATCACAGATGAATGTGCTAGATGAATGATTTGGGTGTATCTGATCA
TGGTTCACAAAAATTATGTTAGTGTGTTTTAGTATGCTAAAAAGTCAGAGTGATACAAAAGTGATTTTAAAA
TATACACACATGTATGTACACATGCTTCAGAAATATTGTTGCTTAGGGTGATTGGGCAGCTAAATAGTAAGTAC
TTTTTAAATTTTTGTCATCATCTTCTTCTATTTAATGAATTGTGATTTAAACAAAATGAAAATAAGCCAGGTA
TTCTAAAAGATCCTGGATACAAATTAAGAATTTTGCTTTATTTTAAACCAAATTGAGATTAAATTGAAGAAAAGC
AAGCAAATTAATTTAGCTTGATTATCAACCTGTATCAAGAACAAAATGGGAGGAGGTGCCACATTTATGGTG
TGTATAGGTAACATGGGAAAAATGCTATTCTGTGTTTTGGAAAAGAAGAAATAGTGCCGTCTATTATTTCTAT
ATTTAGAAATTTTTCTCAAAGAAATTTCAATTGTATCTATGAGATGGGTTTCTAAGTATCTTATTGTGTGTTATA
AGTGCCTTTTAATATCATACTAAGTGTGAGCTTCTGGACATTTTCAAGAGCTTACAAAACCTAAGTGGCATTGTA
TTTTTATAACCCATTGAGAAGACTAAGTAAGAAATGAAATGTCTATCAATTTTATTTGTCTATGCTTCAAACA
ATAAAGACATTTCTGCTTTAAAGACAAACAAAAA

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FIGURE 1703

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSPHGNLL
ASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGQFLATASEDKSIKVWSMYRQRFLYSLYRHTHWVRCA
KFSPDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDFVGFANFVDFNPSGTCIASAGSDQTVKVWDVRVNKLLQHYQ
VHSGGVNCISFHPSGNYLITASSDGTLLKILDLLLEGRLIYTLQGHTGPVFTVSFSKGGELFASGGADTQVLLWRTN
FDELHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEDFFLHLLRLIQSLR

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FIGURE 1704

GGAATTTCGGCACGAGCCCGATTCCGCGCCCGCCATGCCGACAAAATGGACATGTCTCTGGACGACATCATTAAA
CTGAACCGGAGCCAGCGAGGCGGCCGGGGCGGGGGCCGCGCCGGGCGGCTCCAGGGCCGGCCGCGCGGTGGG
GCGCAGGCCGCGCGCGAGTGAATCGAGGCGGCGGGCCATCCGGAACCGCGCCGATCGCCCGGGCGCGGGCC
GGCGGAGGCGGCAGGAACCGACCGGCGCCCTACAGCAGGCCAAAACAACCTCCCGACAAGTGGCAGCACGATCTT
TTCGACAGTGGCTTCGGCGGTGGTGCCGGCGTGAGACAGGTGGGAACTGCTGGTGTCCAATCTGGATTTTGGA
GTCTCAGACGCCGATATTCAGGAACTCTTTGCTGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTATGATCGC
TCTGGTCGCAGCTTAGGAACAGCAAACGTGCACTTTGAGCGGAAGGCAGATGCCCTGAAGGCCATGAAGCAGTAC
AACGGCTTCCCTCTGGATGGCGCCCCATGAACATTCAGCTTGTCACGTCACAGATTGACGCACAGCGGAGGCCCT
GCACAGAGCGTAAACAGAGGTGGCATGACTAGAAACCGTGCGCTGGAGGTTTGGTGGTGGTGGAGGCACCCGG
AGAGGCACCCGCGGAGGCGCCCGTGGAAGAGGCAGAGGTGCCGCGAGGAATTCAAAGCAGCAGCTTTCGGCAGAG
GAGCTGGATGCCCAGCTGGACGCCTATAATGCGAGAATGGACACCAGTTAAACAGACCAGCAAATCCGCGTGCGG
AACAGGACCCAGGCGTCTCCTCTTGCTCCCTGGTTGGGGGCGGTGGCTGGGGCTGTGCGCCCAATGATGGATTT
GTTTCTTTTATGTTTTAAAATAGGATTTAAAACTCATGTAAAGGTTTTTTTTTTTTCTTTTTTTTTTTTAAAT
TCTGAAACAGACCTGTTTTGTACCGAGTTATTTTGGGATAAATTTTACTGGTTGCTGTTGTGGAGAAGGTGGCG
TTTCCACCTTTTCCATAATAAAATAGAAATGTGTGTAA

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FIGURE 1705

MADKMDMSLDDIIKLNRSQRGGRGGGRGRAGSRAGRRGGAQAAARVNRGGGPINRPAIARGAAGGGGRNRPAPY
SRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKAHVHYDRSGRSLGTANVH
FERKADALKAMKQYNGFPLDGRPMNIQLVTSQIDAQRRPAQSVNRGGMTNRNGAGGFGGGGGTRRGTGGARGRG
RGAGRNSKQQLSAEELDAQLDAYNARMDTS

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FIGURE 1706

[illegible]

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FIGURE 1707

MGPQRRRLSPAGAALLWGFLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSISLMNLTSTPLCNL
SDIPPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVVNSVLFPPSGNRSEFPDVKILIAFISYKDFRDMNQ
TLGDNITVKMYSWPNFDTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVI
FVVICCVMMVLLYFFYKWL VYVMIAIFCIASAMSLYNCLAALHKIPYGQCTIACRGKNMEVRLIFLSGLCIAVA
VWVAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLYDVFFVFIPTFITKNGESIMVELAAG
PFGNNEKLPVVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLIAYCRRFDVQTGSSYIYYVSSTVAYAIGMIL
TFVVLVLMKKGPALLYLVPCTLITASVVAWRRKEMKKFWKGNSYQMDHLDCAATNEENPVISGEQIVQQ

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FIGURE 1708A

GAATTCGGCACGAGTCATGGCGGCGGGAGCGCGGCTTCCCAGGCCCGCGCTCCGCAGGGCTGCTGGCGTTGCTG
CTGTTGAGAGGCGGCGGCGGCGGCGCAGGCGGGCGGAAGGATGGTGTTCCTGCGACTGGAGCGGCAGGTGCGGA
CCGGGAGCCGGACCGAGGTTTGGCAGAAGCAACGTGTGCTCGGGAGCAACCGGCGCGGGTGCCACTGAGGCAGCG
GAGGGAGGCAGGATCGACTGACGGGCGAACGGACGGACGGACGGAAGGCGACTCGAGGGCCGGCCCCGGAGCCGC
GCCGTGGGCGAGATCGCGGGGCGCGCGGCTTGGCGGCGAGGCTGCTGCTGCTGCTGCTGGTCTCTGATCGCC
GGCAGTGCTGGGGCGCGCCACTTCCGCAAACAGGTGCAGGGGAGGCGCCACCTGCTGCAGAAGTTTCCTCATCT
TTTGTGATCCTGTGTGTGTGCAGTTTAATAATATTAATAGTGTTAATTGCAAACCTGTGTATCCTGCTGTAAGGAC
CCAGAAATAGACTTTAAGGAATTTGAAGATAATTTTGATGATGAGATAGATTTACACCACCAGCAGAAGACT
CCCTCTGTTTCAGTCCCCAGCAGAGGTCTTCACACTTTCAGTACCAAATATTTCACTCCCAGCTCCCTCGCAATTC
CAGCCTTCTGTAGAGGGATTGAAGTCTCAAGTTGCCGCGCACAGTCTAACTACATACAGGAAATTGGAATGGC
TGGTTTGGAAAGGTTCTCTTGGGAGAGATTACACGGGCGACTAGCGTAGCAAGAGTCATCGTGAAGGAGTTAAAA
GCAAGTGCCAACCCAAAGGAACAAGATACTTTTTTGAAGAAATGGAGAACCCTTACTACATTCTTCAGCATCCAAAT
ATTCTTCAGTGTTGGACAGTGCGTAGAAGCGATTCCCTACCTCCTGGTGTGTTGAGTTCTGTGACTTGGGTGAC
CTGAAGGCGTATCTGCGCAGCGAGCAGGAGCACATGCGGGGGGACTCACAGACCATGCTGCTGCAGAGGATGGCG
TGCGAGGTGCGCGCGGGGCTGGCCGCCATGCACAAGCTGCATTCTCTGCACAGTGATTTAGCCCTGCGGAATTGT
TTTCTCACCTCCGACTTAAATGTGAAAGTGGGAGATTACGGAATAGGATTTCAGCAGGTACAAGGAGGATTATATT
GAAACAGATGATAAAAAAGTTTCCCTCTGCGATGGACTGCTCCAGAATTAGTAACCAGCTTTCAAGACAGACTG
CTAACTGCAGATCAGACTAAGTATAGTAATATCTGGTCTCTGGGTGTGACACTTTGGGAGCTTTTTGACAATGCC
GCACAGCCGTATTCAAACCTTTCCAACCTTAGATGTCCTCAACCAAGTCATTAGAGAGAGAGACAAAACTCCCG
AAGCCCCAGCTGGAGCAGCCCTACTCTGATAGATGGTATGAAGTCTTACAGTTCTGTTGGCTGTCAACAGAAAAG
AGACCCGCGGCTGAAGATGTGCACAGGCTGCTGACTTACCTGCGGCTGCAGAGCCAGCGGGACTCAGAGGTGCAC
TTTGAACAGCAGTGGAACGCTCTGAAGCCGAACACAAACAGCAGAGACTCCTCCAACAATGCTGCATTCCCAATT
CTCGACCACTTTGCCAGGGACCGGCTGGGTCTGTAATGGAGGAAGTCTCACCGTGACCGAAACCAGCCAGGGC
CTGAGCTTCGAGTATGTCTGGGAGGCGGCTAAGCACGACCCTTTGACGAGCGCAGCCGGGGCCACCTGGACGAA
GGCTTGCTTACACGAGCATCTTCTATCCGGTTGAAGTTTTTGGAGGTTTCGCTTTCAGATCCTGGGCCCCGAAAG
CAAGATGACAGCGGCCAGGATGTCCCCCTGAGGGTCCCTGGAGTGGTTCTCTGTTTTGATGCCCACAACCTTTCT
GTTGGAAGCGACTATTATATCCAGTTAGAAGAAAAAGTGGTAGTAACCTGGAGCTTGATTACCCACCAGCGCTG
CTCACAACCGACATGGATAATCCAGAAAGGACTGGCCCTGAAGTGTCCAGCTCACGGCGCTCAGGAGCGTTGAA
CTTGAGGAGTCCAGTACAGATGAGGACTTCTTCCAAGCAGTACAGACCCCAAAGACTCTAGCTTACCAGGGGAC
TTACACGTGACCAGTGGCCCCGAGAGCCCTTTCAACAATATATTTAATGATGTGGACAAATCGGAAGATTGCCC
AGTACCAAAAAATATTCGACTTAATGGAATTAACGGAGTTCAAGCCGACTTTAAACCTGCCACTTTAAGTTC
AGTTTGATAACCCCAAAGAGTCAGTCATAACAGGCCACTTTGAGAAAGAAAAGCCCCGTAAGATTTTTGACAGT
GAGCCTCTCTGCCTATCAGATAATCTTATGCACCAAGATAATTTTGATCCATTGAATGTTCAAGAATTGTCAGAA
AACTTTTTATTTCTTCAAGAGAAAACTTACTAAAAGGCTCATTGTCCAGCAAAGAACACATAAATGATCTTCAG
ACAGAACTTAAGAATGCTGGTTTTACTGAAGCTATGTTAGAAACGTATGTAGAAACTCTTTAGATACTGAGCTT
CAGTTTGCTGAAAATAAGCCAGGCTTGTCTTTGTTGTCAGGAAAACGTAAGCACAAAGGGTGACGATACAGATGTC
ATGCTCACAGGTGACACTTTGAGCACCTCATTGCAGTCTTCCCCGGAAGTGCAGGTACCTCCTACCTCCTTCGAA
ACAGAAGAAACGCCCCGTGCGGTACCCCCAGACTCACTCCCAACACAGGGAGAAACCCAGCCACGTGTTTAGAT
GTTATTGTCCCGGAGGACTGTCTCCACCAGGACATCAGTCCAGACGCTGTGACTGTCCCGGTTGAAATCTCTCA
ACTGATGCCAGAACCCACAGCCTGGATAACAGGTCCCAGGACTCTCCTGGCGAGAGTGAGGAGACCCTGCGACTC
ACCGAAAGTGACTCTGTTCTTGTGATGACATCCTTGCCAGCAGGGTGAGTGTAGGGAGTAGTCTCCCGGAAGT
GGACAGGAATTGCACAATAAACCATTTTCGGAAGACCATCACAGTCATCGCCGGCTAGAGAAAACTTAGAGGCT
GTGGAGACTTTAAATCAGCTCAATTCTAAAGACGCAGCAAAAGAAGCAGGCTTGGTGTCTGCCCTCTCCTCGGAC
TCAACCAGTCAGGACAGCCTCCTGGAGGACAGCTTGTACAGACCCTTCCAGCTCTGAGCCGTCCCTGGAAACC
CCGGACTCTCTGGAGTCAGTGGATGTCCACGAAGCGCTACTGGACTCTTTAGGATCTCACACTCCCAGAAACTA
GTGCCCCCGGATAAGCCGGCAGACAGTGGCTACGAAACAGAGAACTTGGAGTCTCCCGAGTGGACCTTGCATCCC
GCTCCCGAGGGCACCAGACTCAGAACAGCCACCACGGCGATGGCGGCCACAGCGGTCTGCCCTCCCAACCCG
GTCATTGTCATCTCAGATGCCGCGATGGTCACAGAGGCACAGAAGTGACCCCTGAGACGTTACAGCTGGCTCC

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FIGURE 1708B

CAGGGTTCATACCGAGACTCTGCGTACTTCTCAGACAATGACTCTGAGCCCGAGAAAAGGTCTGAGGAGGTCCCG
GGAACCTCCCCATCCGCTTGGTGTGGTACAGGAGCAGCCCCCTACCCGAGCCAGTCTCCCCGAGCAAAGTCTT
GCTGCCCAGGATAGCTGCCTGGAAGCCAGAAAGAGCCAGCCAGATGAAAGTTGTCTGTCTGCTTTGCACAACTCC
AGTGACCTGGAATTAAGAGCCACGCCGAGCCAGCACAGACTGGTGTTCCTCCAGCAGGTGCATCCACGGAAGAC
GAGGCCAGCAGTCCCTGGAGTGTGCTGAATGCAGAACTTAGCAGCGGCGATGACTTCGAGACACAGGACGATCGC
CCCTGCACCCTCGCTTCCACGGGGACCAACACGAACGAACCTTGCCTACACCAATTCTGCGCTGGACAAGTCC
CTGTCCAGCCACTCCGAGGGCCCGAAGTTGAAGGAGCCGACATCGAAGGGAAGTACCTGGGGAAACTCGGGGTG
TCAGGGATGCTCGACCTCTCAGAGGACGGGATGGATGCAGACGAGGAGGACGAAAACAGCGACGACTCGGACGAG
GACCTGCGGGCCTTCAACCTGCATAGCCTCAGCTCCGAGTCCGAGGAGCAGACCCGAGCACCCTGCCCCATCATC
CTCAGCAACGAGGACGGAAGGCACCTGCGGAGTCTGTTGAAGCCACAGCGGCCAATGCCCCGACCCACTGCCC
GAGGACTGGAAGAAGGAAAAGAAGGCAGTCACGTTTTTCGATGATGTACAGTCTACCTGTTTGACCAGGAGACC
CCAACCAAAGAGCTGGGGCCCTGTGGAGGAGAGGCGTGCAGCGCCGACCTGAGCGGGCCAGCCCCAGCCTCAGGC
TCTCCCTACCTGAGCAGGTGCATCAACTCCGAAAGCTCCACCGACGAAGAAGTGGTGGCTTTGAGTGGGATGAT
GACTTCTCCCCAGATCCTTTTATGTCAAAGACAACAAGTAACCTGCTCAGCTCCAAGCCTTCTCTCAAACATCC
AAGTACTTTTCTCCGCCGCCACCGCCCCGAGCAGGAGCAGAGCTGGCCGCACTCGGCGCCTTACTCCCGGTTT
TCCATCTCTCCGCCAACATTGCCAGCTTTTCCCTCACACACCTGACCGACTCGGACATCGAGCAGGGCGGAAGC
AGCGAAGACGAGAAAAGGACTAGGTGGCTGCCAACGCGCACGCTCGGGTCCGAGGCTGCTCCCTGGAGCGGGC
CCCCTGCGCCCTCAGCCCGAGCAGCGACATCCACTCGCCATTTGCTGACATGAGATTGGGAGGAAGAATCCAGAG
GTGAAGAGGGAGACGGCTCTTAGCTGCGTTCAAGCGGGGCCCTCGGGAGCCAGGTGCAGAGCGAGGCGGTGTC
CAGGAGCCGGCGTCCCTCAGTGCCCCGTGCACCGCGGCGCGGCTCCAGGCAGTGTCTATGCGCTGGCCGTCT
GGGGGAGGCAGGGGCACAGCCTCCATGTGCGCGCGCGTGTGGAGCTGTGTGCACCGCATGTGTGCTTTCCACAGG
GGCGTCTCTGCGTCCACGCTGCACATCCCGGCGCACGCTGTGGGCACCACAGAGGACACGTGAGGGGAATGGTCA
CCAGTGAGCCATATTTATTATTTCTAGAGAAATCACGAACCTGCTTTCTGTAATTGCACTGTGGATAAATGTTCCG
AGAGTCTCCATTGTTGTACAGGATCTTCAGTTATTCGAGGGGAATGAGGCAGGTCAAGCCGATGCTAGCCACTAG
TTTGATTTTTTTTCTGTTTTATAGTTTGCCTGCATGGTACTTGTGAAGCTTAAATATTTTGAGTGTCTACTGT
GTCTAGGATTGTTGGGATTGTACATATGGTACTCTTTCATAAATGATAAATGATTCTGAATGTTAGTGTTTATG
TTCATATAGGAAATATTTTCATTGAGTCCAAAATACCACTGTTTTGTTGATGGACTGAATGCATTTTGTCTCT
TCTTGATGAAGCGGCTTTGCCGACGAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTGCAGCCTCTCCTTG
TCATTCTCCACCCACATCCCATTTTTTAAAGCCCTTTTGGTAAAAACCAACAGGTTGTGGCCGACAGCCTCAG
ATGGACCCGGCCCATCCCTGGGGACGTGCTGGCGTGGCAGGTCCAGAGAGCTGCACCTGCACGGGGCACCGCAC
CGCTTCCCTCCGCGCAGCTCTTCTGCGTGGTTTTCGGAGGCCAGGCTGCTGGGAGGCTTCCGTGTTCTGTCACT
CCTTCTTCAAGAAGCCGGGGAACCTCAGGCAGACTCATCTCCGACAGCATAACAGCCGTGGGGGACCGTTCCGAC
TTGATGATGTGTGCACACTTCAGGTGGTGGGGACTTGAGCTTTAAAAAACCTCCACAGCCGAATCTTCTCCTCC
GAGCCACTCCACGTACAGTCCAGCTGGGCTGGCCAGTCTGTGGTTATCCATGTGGGATGAGATAACACCACATC
CTGCAGCTGTGAAGGGGATGGACAAGGGACGACGGCCGACGGCAGAGCATCAGCAGCCGACACATAGTTCCGGT
CGGGGCCCTTGGGTGGTCTGCTGATGGCCCGGACTCATCTCACGGACCTCCGTCTGCTAATTAAGCCCCAGGTTCT
CTTCTGCTTTGAAAGGGCCCCGAGTGTCCAGTGTAGCTTCGTACATCGTCACGAGCCCTGTGGTTCATGGGC
GACCTCACACCTCCCTCCCTGAGTCTGCTCTGACATAAGGAAGTCTCGGTGGCTGGTGCAGCGCGGCTGTGCT
GTGCTGGGGAGGCAGCCGTTCCCTTGGGGGTCTTGGGCTGCAGTCCCTCATACTACCCCTCACCCAACATA
TTTTCCGGTGCTGATATGTTTCCAGACTCCAGCGCAACCTGGGGTGCTCTCCAGACCCGTGCAGGGGCCGCTGG
GGTACACGGAAGGAAGTTGAGTCTAGTGCAAAATGCAGGCGGACGTTGCCAGAGAGTGCGCAGCAAAATGACCTT
CATTGCCAGTTCCACCCTACTCCTCTCATTTTTTATACTAAGCAATAACTTTCCAAAGCAAGAAGTTCAGGATGG
AGAGAGTCCCTCCTGTGTAGGCATGGGGTGGACGCGGTGCCACCTGGGCTATGTGGGGAGCACCCTGTCTCG
GGAIGCGCAATTTTTTTTTTTTTTAAATTAACAGGGCATTAGAAGATGATTTTGCCAAAATTGTCATGACTCTG
AATTCTGTGTGTGGGACTTCCTGAGTTTTCTCAGTTTTTACATCTAAGATTAGTCTTGGCTGAAGAGAAATGAG
ACGTGATTATACTACTTTTTCAATTGCAGGTTAAGGAGTTCAGATTTAATGACCAAAGTCATACAGATCATGGA
ATCTGTGCTGCTTTATACAGTGTGAGCCTCGAGTACATTTATTAACCTTTTGGGGCTGTGAGTTTTCCACTAGG
ATTAAGATTTTGGCCGGGCGCGGTGGCTCACGCTGCAATCCCAACACATTGGGGGGTTCGAGGCGGACGGATCAC

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FIGURE 1708C

TTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAATATATA
TATATATATATACTAGCTGGGGCACATAGTGGTGTGCACCTGTAGTCCCAGCTGCTTGGGAGGCTGAGGTGGGAG
GATGGCTAGAGCCCAGGAGATGGGTGTTGCAGTGAGCTGAGACCATGCCACTGTACTCTAGCCTGGGTAACAGCC
AGACCCTGTCTCAAAAAAAAAACAATTTTTTTCATAACATAATTCCCATTTTTATTTATTTTGGTCACTCATAA
TTAATTGCCAAAAAGCATTTTATACATTGAGTTGGGGGGTAGTGGATCTTAGTGTGGTGTTCATGGAGGGGCG
AGATTTTATATTTATAATCAACACGTGGGTAAACATGTTTTTTTGAATCCAAGCAATACACAGGAAATTTAAGT
AGAATAAAAATTGCAGCCCATTTTTGAAATGTCAGCATGTGCTGTGTTTCAAGTTTGTGTTTTGTTTTG
TTATTTTTTAATAAAGTTGGTTATCAGTGGTGGGTTTTCAAATGTACTTGTTCATAAAGTTGTACAATGA
ACTAAATCAGTGGCATTCTCTAGATAATGTGGGGGAAGGTTAGAATATTTTCTGGCCTTCTATGGGGTAGCAACC
CAGAATCAATCTGAATTAGTCCTGTTTTGGTGGAGTTGTACATTTTAAATCCTATAACAAAAATAATCTAGTTT
TCATTTCCCTTACTAGCTAGATGCGAATTTGTCTTTTTGAATGACCTGTCAATAAGCCAGAAAGGGCAACCCAGA
AAAAGTGCTCCCCACATCCTTCTGAGACTTGGCCTGTGTGTGTGGACGAGAAGCCATTACCCGTAAGGGTGCAGA
AAGCTCGACCAAGCCGAATTGCAAACAACGTTCTTCTATTTTTAAATGTACAGGTTTCGATCGTTTCTATAGAAA
TGGGTTTATCTAAGAAAAGTCTTGGTTTGTCTTGTCTGTGTAAAAGGCCTTTCCAAACCCCTCCTTTTATTCCTG
TTTCCCGAAATAAGGTATTTGTAGAGTTAAGGACCTACTGCATGCCTGTCCCCAGGGCCCCGGTGGGAAGGAAGGC
AGCGCCTGCTCTTCTTGAATCAGCCCATCTGAAAATTCAGAAGTGAACCAAGGGTTAGACGCCAGAGGTTG
GGCTTCTGTTAGAGTGGCTTCAAACATGAGCCTTATGGGAAGTAGCCTTAAAAAAGAATGGGTATACGCAGTG
ACTTCCGATGGAAATCTCCAAACAATATTCTTAAGTAGCAATGGGGTTGGCTCAAGTCTTTATTAACAAAGAAC
ATTCTCTTTCATCTATAAAGAAATCTTAAAGATGCATTGACAGTGTGAATTACCAACAGCCTGTGAAGATCAG
TTTGACCGGTGTGGACACGTGCTGGTTAAGCACTCAGGCCTACGTGGGCCGAGCGGGATCTTGATCATGGGGCTG
GTGTATGGATCCACCGTCGGATTCCGTCTGCAGAGGAGGACGTAGGGGCCGTACACCCACCAGGCCTCCCTGC
TGTGCTTTAACACAGGCAGAAGAGGTTTCATGGCAATATAATAGTCAATGAACTTTCAGTTTAAATTGTGTACATT
TTTAAATTGTAAGATTTTTACTGTATATTGATGCATAGTGTGATTCAATAAATTGCTTGTAAATTTAAAAACTATT
TAATATTCAAATAAATATAGTTATATATTTATAAAAAAAAAAAAAAAAAAACTCGAG

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FIGURE 1709

MPGPPALRRRLLLLLLVLLIAGSAGAAPLPQTGAGEAPPAAEVSSSFVILCVCSLIILIVLIANCVSCCKDPEID
FKEFEDNFDDEIDFTPPAEDTPSVQSPAEVFTLSVPNISLPAPSQFQPSVEGLKSQVARHSINYIQEIGNGWFGK
VLLGEIYTGTSVARVIVKELKASANPKEQDTFLKNGEPIYILQHPNILQCVGQCVEAIPYLLVFEFCDLGDLKAY
LRSEQEHMRGDSQTMLLQRMACEVAAGLAAMHKLHFLHSDALALRNCFLTSDLNKVGVDYIGIGFSRYKEDIETDD
KKVFPLRWTAPELVTSFQDRLLTADQTKYSNIWSLGVTLWELFDNAAQPYSNLSNLDVLNQVIRERDTKLPKPQL
EQPYSDRWYEVLFQFWLSPEKRPAAEDVHRLTYLRLQSQRDSEVDFEQQWNALKPNTNSRDSSNNAAFPILDHF
ARDRLGREMEEVLTVTETTSQGLSFEYVWEAAKHDFDERSRGHLDEGLSYTSIFYPVEVFESSLSDPGPGKQDDS
GQDVPLRVPGVVPVFDHNLVSGSDYYIQLEEKSGSNLELDYPPALLTMDNPERTGPELSQLTALRSVELEES
STDEDFQSSSTDPKSSSLPGDLHVTSGPESPFNNIFNDVDKSEDLP SHQKIFDLMEINGVQADF KPATLSSSLDN
PKESVITGHFEKEKPRKIFDSEPLCLSDNLMHQDNFDFLNQVQELSENFLFLQEKNNLLKGSLSKEHINDLQTELK
NAGFTEAMLETSCRNSLDTELQFAENKPGLSLLQENVSTKGDDTDVMLTGDITLSTSLQSSPEVQVPPTSFETEET
PRRVPPDSLPTQGETQPTCLDVIVPEDCLHQDISPDAVTVPVEILSTDARTHSLDNRSQDSPGESEETLRLTESD
SVLADDILASRVSVGSSLPPELGQELHNKPFSEDDHSHRLEKNLEAVETLNQLNSKDAAKEAGLVSAISSDSTSQ
DSLLEDLSLAPFPASEPSLETSPDSLESVDVHEALLDSLGSHTPQKLVPPDKPADSGYETENLESPEWTLHPAPEG
TADSEPATTDGCGHSGLPNPVIVISDAGDGHRTGTEVTPETFTAGSQGSYRDSAYFSNDNSEPEKRSEEVPGTSP
SALVLVQEQLPEPVLPEQSPAQDSCLEARKSQPDSCLSALHNSSDLELRATPEPAQTGVPQQVHPTEDASS
PWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKEPDIEGKYLGLGVSGML
DLSEDGMDADEEDENSDDSDLDLRAFNLHLSLSESEDETEHPVPIILSNEDGRHLRSLKPTAANAPDPLPEDWK
KEKKAVTFFDDVTYVLFQETPTKELGPCGGEACGPDLSGPAPASGSPYLSRCINSESSTDEEGGGFEWDDDFSP
DPFMSKTTSNLLSSKPSLQTSKYFSPPPPARSTEQSWPHSAPYSRFSISPANIASFSLTHLTDSDIEQGGSSDGD
EKD

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FIGURE 1710

CCCACCCGCGACGCCGACGCAAGGCTGCTGCTATGGGGCCGGGCGGCCGTGTGGCGCGGCTGCTCGCCCCACTAA
TGTGGCGCAGGGCGGTTTTCTCGGTGGCGGGGTCCGCGGTTGGAGCCGAGCCCGGGCTTCGGCTGCTGGCCGTGC
AGCGGCTTCCCGTAGGAGCAGCGTTCTGCCGGGCTGCCAGACCCCAAACTTTGTCCGCGGCCTGCACAGCGAGC
CTGGGCTGGAGGAGCGGGCGGAGGGGACGGTCAACGAGGGACGCCCAGAATCGGACGCGGCAGATCATACTGGTC
CCAAGTTTGACATCGATATGATGGTTTCACTTCTGAGGCAAGAAAATGCAAGAGACATTTGTGTGATCCAGGTTT
CTCCAGAAATGAGATATACAGATTACTTTGTGATTGTTAGTGGAACTTCTACCCGACACTTACATGCCATGGCCT
TCTACGTTGTGAAAATGTACAAACACCTGAAATGTAAACGTGACCCTCATGTTAAGATAGAAGGGAAGGACACTG
ATGACTGGCTGTGCGTGGATTTTGGCAGCATGGTGATTCATTTGATGCTTCCAGAAACCAGAGAAATCTATGAAT
TAGAGAAATTATGGACCTACGTTCTTATGATGACCAGTTAGCTCAGATAGCACCTGAGACAGTACCTGAAGACT
TCATTCTTGAATAGAAGATGATACTTCATCTGTGACTCCAGTGGAGTTAAAATGTGAATATAAATATTTTATGCA
CTGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1711

MGPGRVARLLAPLMWRRVSSVAGSAVGAEPGLRLLAVQRLPVGA AFCRACQTPNFVRGLHSEPGLEERAEGTV
NEGREPSDAADHTGPKFDIDMMVSLLRQENARDICVIQVPEMRYTDYFVIVSGTSTRHLHAMAFYVVKMYKHLK
CKRDPHVKIEGKDTDDWLCVDFGSMVIHLMLPETREIYELEKLWTLRSYDDQLAQIAPETVPEDFILGIEDDTSS
VTPVELKCE

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FIGURE 1712

GGGCCGCGACTGTGGTCGTTTTTATACCTTCCCGCGCGGACGCCGGCGCTGCCAACGGAAGGGCGGGTAGGGCGA
GACGGAGTTTCGTCATGTTGGCCAGGCCCATTTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCCAT
GAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTGGCATCTG
CAGGATGGCATTTAACGGATGCTGCCCTGACTGCAAGGTGCCCCGCGACGACTGCCCGCTGGTGTGGGGCCAGTG
CTCCCACTGCTTCCACATGCATTGCATCCTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTG
CCGCCAGGAATGGAAGTTCAAGGAGTGAGGCCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCTC
ATGCTGGCGCCGATGGCTGCTGGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAACAAGGGCTGGAGCTGCGTT
TGTTTGCCATCACTATGTTGACACTTTTATCCAATAAGTGAAAACTCATTAACTACTCAAATCTTAAAAAAA
AAAAAAA

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FIGURE 1713

MKVKIKCWNGVATLWLVANDENCGICRMAFNGCCPDCKVPGDDCPLVWGQCSHCFMHMCILKWLHAPAGAAALPH
VPPGMEVQGV RPTWLSLEGHPETPSSCWRRWLLGTAPLSCNKVETRAGAAFVLP SLC

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FIGURE 1714

GTTTACATCCGCCGGGTGCGCGGTTTCGCCGCCCCAGGTCGTTTCGGCTCGGGTACCATCCTCCGCGCCATGGACAC
CAGCGACCTGTTTCGCCAGCTGCAGGAAGGGGGATGTGGGCCGAGTGCGACCATGAACCCGTCTTGACCCAGGCTC
TGACCTCCTTCCTGCCAGGTACCTGCTGGAGCAGCGAGACGTGGAGGTACTATGCCTGCTTGTGTGGGCACGAG
GAGCTGGTACTCTACCTTCTGGCCAATGGAGCCCGCTGCGAGGCCAACACCTTCGATGGTGAGCGCTGCCTCTAT
GGGGCAGTGAAGTACCCCATCCGCCGGGCTCTACGCGATTACAAGCAGGTACGGCTTCCTGCAGGAGCGGGAT
TACTATGACGACTTCTTGACGCGGCTTCTAGAGCAGGGCATCCACAGTGACGTGGTCTTTGTAGTACACGGGAAG
CCATTCCGGGTGCATCGCTGCGTCTGGGTGCACGTAGTGCCTACTTTGCCAACATGCTGGACACCAAATGGAAG
GGCAAGAGTGTGCTGGTTCTCAGGCACCCACTGATCAACCCCGTGGCCTTTGGGGCCCTGCTGCAGTACCTGTAC
ACAGGCCGCTGGACATTGGCGTAGAGCATGTGAGTGAAGTGTGAGCGCCTGGCCAAGCAATGCCAGCTGTGGGAC
CTGCTCAGCGACCTGGAGGCCAAGTGCAGAGAAGGTGTCTGAGTTTGTGGCGTCTAAGCCAGGCACGTGTGTGAAG
GTGCTGACCATCGAGCCCCACCTGCAGACCCCGCTCCGGGAGGACATGGCGCTGCTGGCCGATTGTGCCCTG
CCCCCGAGCTCCGAGGTGATCTTTGGGAGCTGCCCTTCCCTTGTCTGACGGCTTCAACAGCTGCCCTGACATC
TGCTTCCGAGTGGCTGGCTGCAGCTTCTCTGCCACAAGGCCTTTTCTGTGGCCGAGTGACTACTTCCGAGCC
CTGCTGGATGACCACTTCCGAGAGAGCGAGGAGCCAGCGACCTCAGGGGGCCCCCAGCCGTCACCCTGCATGGC
ATCTCACCCGACGTCTTCACTCACGTGCTCTACTACATGTACAGCGACCACACTGAGCTGTCCCCGAGGCAGCC
TATGATGTGCTGAGCGTCGCCGACATGTACCTGCTGCCAGGCCTGAAGAGGCTGTGCGGCCGAGCCTGGCTCAG
ATGCTAGACGAGGACACTGTGGTGGGTGTGTGGCGCGTGGCCAAGCTCTTCCGCCTGGCGCGGCTTGAGGACCAG
TGCACTGAGTACATGGCCAAGGTCATTGAGAAGCTGGTGGAGCGGGAGGACTTCGTGGAGGCGGTGAAGGAGGAG
GCAGCGGCTGTGGCAGCCCGGCAGGAGACGGACTCTATCCCGCTGGTGGACGACATCCGCTTCCACGTGGCCAGC
ACGGTGCAGACCTACAGCGCCATAGAGGAGGCGCAGCAGCGTCTGCGGGCACTCGAGGACCTGCTCGTGTCCATC
GGTCTGGACTGTTCAGCCCCCTGGCTGGGCAGCCCCAGGGGCCAGGAGCTCTCTTGAGACAAGCATGTGTATGCG
TTTGTGTGAGCTCTTCTTCTGCTCCCTGCACATTGAGGGCTTCATGGGGGGTGGCAGGGGCTCAGTGGGGCTT
CTCTTCCCTCCATGAGCCTGGAGACCCAGGGGAGGATCCATTTGGGATGAGCCCCCTCCCCCAATGCACAAGC
CAGCCCCCAAGACCCTGGGGGTGGACACCACTCAGGGAAACCTGGGGTGGGGTGGGCTTTGGTCTTAGCACTTT
CCTTCTCCAGATCCCCCTACCCACCCAGTCCCAAATCCAGTCTCTGGCCCTTGCCTAGCCCTGAATTGCTTC
TCTAAGCTGGTGTCCCATGCACAGGGCCATTAGGAAGGGCTGGGGGAGTGTGTGTGGCAATAAAGCTTGAAGG
CACCGTGGGAAA

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FIGURE 1715

MLDTKWKGKSVVLRHPLINPVAFGALLQYLYTGRLDIGVEHVSDCERLAKQCQLWDLLSDLEAKCEKVSEFVAS
KPGTCVKVLTIEPPPADPRREDMALLADCALPPELRGDLWELPFPCPDGFNSCPDICFRVAGCSFLCHKAFFCG
RSDYFRALLDDHFRESEEPATSGGPPAVTLHGISPVDVFTHVLYMYSDHTELSPEAAYDVLSVADMYLLPGLKRL
CGRSLAQMLDEDTVVGWVRVAKLFRLARLEDQCTEYMAKVIEKLVEREDFVEAVKEEAAAARQETDSIPLVDD
IRFHVASTVQTYSAIEEAQQLRALEDLLVSI GLDC

[illegible]

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FIGURE 1717

IFSKTSCFYLKFFSYLL

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FIGURE 1718

TGCGGCCGCTGCCTTGGACCCAGCGCCACCCGCACACGGCGCTCCGCTAGCCAGGCCGGGAGCAAGAGCCAGGCG
GTGGAGAAGCCGCCGTGGGAGAAGCCGCGGCTGAGGCGCTCGTCGCGCCGGGCCCCAGGAGGAGGGCCGGGGGAG
CCGCCGCCGCTGAGCTGGCGTTGCTCCCGCCACCGCGCCGCCGCCGCGACTCCCGCGACCCCGACGTCTCTCG
GCGTCCAACCTGGACCTGGGCGAGCAGCGGGACGCCTGGGAGACGTTCCAGAAGCGGCAGAAGCTTACCTCCGAG
GGTGCCGCCAAGCTCCTGCTAGACACCTTTGAATACCAGGGCCTGGTGAAGCACACAGGAGGCTGCCACTGTGGA
GCAGTTCGTTTTGAAGTTTGGGCCTCAGCAGACTTGCATATATTTGACTGCAATTGCAGCATTGCAAGAAGAAG
CAGAATAGACACTTCATTGTTCCAGCTTCTCGCTTCAAGCTCCTGAAGGGAGCTGAGCACATAACGACTTACACG
TTCAATACTCACAAAGCCCAGCATACCTTCTGTAAGAGATGTGGCGTTCAGAGCTTCTATACTCCACGATCAAAC
CCCGGAGGCTTCGGAATTGCCCCCACTGCCTGGATGAGGGCACTGTGCGGAGTATGGTCACTGAGGAATTCAAT
GGCAGCGATTGGGAGAAGGCCATGAAAGAGCACAAGACCATCAAGAACATGTCTAAAGAGTGAAGCTTCTGCCTCT
CCTGCCCTGAAAAGGAGGAATGATTGGGGCCAGCAACTTTGCTCTCCCTGCCGTGCCTCGGTGGTGCTCCTGAAT
GTGGCTGACCTGGGCTGCTGGTTCCGTTGACTAGGGTCATCTTGATCTCTGCAGTTTGCTCCAGCTACCAGTTTC
TTTAGGCAGCTCTTTGTCTCCCTCTGCCCAGATTTTGATGTAGTCTAATTGACATCCTTCTCTTCCCACTTTT
GTGTGATCCAGCAGAGCATGTGAGACTCTTTGATATGCACCTTCATGTATTATCTTGTTTCAGTTCTCTGAGGTTG
GGATCATTATTATTTCCTATTTTGCAGATGAGAGAATTGAGGCAGAGAAAGGTTCAGCACCTTGCTTTGGTTAC
ACAGCTGGTCATTCTGGCTTCAATCGCAGGACTACCAGCCTGTGCTCTTCACCACTTAGCTTCCCTGACTCAGGC
CACTTCCCTGGAGCGTTAGCTGGATTCTGAGAGTAGTTTCCAAGCCAGAGCTTTCAGAGAGCTTTGTTTCGTAGG
ACAATTTTAAGACATCAGGTTCTTGAATGTTTTGTGTTTTTTAAGTCTCAGATTTATCTTCTACTTCTACTT
CTCCAAAAAGACTGAGAGCTGACATATTTGATTGTAAGCTCTTTGAGGCAGAGTTCTTGTAATCGTCTCTGTATA
AAACAGTGCCCAACCCAGTGACCTGTACTTGGATGCTTCAATCAGAGCTGTCCTGTTAAATAGAGCAAGTTTTTC
CTAGACCCACATTCT

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FIGURE 1719

CGRCLGPSATRTRRSASQAGSKSQAVEKPPSEKPRLRRSSRRAPGGGPGEPPPELALLPPPPPPPTPATPTSS
ASNLDLGEQRDAWETFQKRQKLTSEGAAKLLLDTFEYQGLVKHTGGCHCGAVRFEVWASADLHIFDCNCSICKKK
QNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNGGFGIAPHCLDEGTVRSMVTEEFN
GSDWEKAMKEHKTIKNMSKE

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FIGURE 1720A

CCCGGGCGAGCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCGGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCTTGGGTGACTACAGCGTGTGTTTTTCTTTCT
CTTCCCCCTGCCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTTCAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCCAGATATCTGCCAAAGAGCAAATCATCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTTACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATATAGTGCC
ACCCTCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCACAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGTGTTCCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTTCAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACCTCTCACCACACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAGGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGCAACAATTTTCAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCCTATCCAATGATTTTCAGCATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTCAGTGGCTGATTTTTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCCTTCTCCACGCTGGGGGACTCT
CCGTGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAA
GAGAAAAGGGATGTATTACCAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAATGGAGGAGACCAGGCCGAAGGAAGCTATTTTCAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGAGAGCCCCAGGACAAAGAATGCCCATCACTGCCCTCC
AGAATATGCTACAAAACCTGCTCCAGGGAAAATAGAGAAAGTCAAACTCCTCCATCCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACCAGGAGGAAGAAGACAACGAATAAACTTCTTCAACCCAGGAAGCGTCTTTGGTGTCT
TGGGAGACCAAGAAACCAAGAAATTAACAACCTGAAAGCATTTTAATGGACTATTTATTAAAGTCAAAACAACTC

[illegible]

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FIGURE 1720C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTCACTGAGCTGCCAATTTTGAT
TTTGTGTGCTCITTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTTGAAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCACITAAATGTTATTATCCTGCTT
TGGTTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAA

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FIGURE 1721

MAEAE LHKERLQAI AEKRRQTEIEGKRQQLDEQILLQH SSKVLREKWLLOGIPAGTAE EEEARRRQSEEDF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSDGD VNYISSQLPDLPI LCSR
TAEFSPGQDGT SRAAGV GENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPM DHPSAFYSPPHNGLLTDH HESLDNDVAREIRYLDEVLEANCCDSAV
DGT YNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAF HEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWNNPPQEKTI EEQLDEEHLESHKKYKERKERRAQEQ LLLQKQLQQQQQPPSQ
LCTAPASSHERAS MIDKAKEDIVTEQIDFSAARKQFQLMENS RQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDTTVLETLSNDFSM DNISDSGASNETTNALQENSLA
DFS LPTPTQTDNPSEGRGEGVSKSFS DHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEAAAFGSEK PQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPLPAVQPSGPI
NMEETREPGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLSMIEE EIRAAQEREEELKRQRQVLQ
STQSPRTKNAPSLPSRTC YKTAPGKIEKVPPPSPTTEGPSLQPD LAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDSSYTSKLLSCKVTSEVLEATR VNNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 1722

GCTCTCGGGCCGCCCTCTTCGCCGTCTCCACGCCTCCGCGGGCAGTTACCAGCTTTGGCTGCTCGCGCCTCCCC
AACTCGGGTAAAGCTCCTCGGCCTCGGCGTGCTGCGCCTCCGCGGCTGCCCTGCGCCAGAATTCGGTTCCCTCAA
AATTATAAAAGCAGGAAAGCTCAAGACAAAGAAATCCAACAAGGCTAGTGATTTAGTGATATGGAGAATTGGCC
AACACCAAGTGAATTAGTGAACACTGGATTTAGAGCGTCTCAGCCAAGGAAATAAAAGCCACAAAATAGAAA
AGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAACCGGGAAACAAAATTAAATGGTCC
TGGTGAAAACGTCAGTGAGGATGAGGCTCAGTCAAGTAATCAACGTAAGAGAGCTAATAAGCACAAGTGGGTACC
ACTCCACTTAGATGTTGTAAGATCAGAGAGTCAAGAAAGACCTGGATCCCGGAACAGCTCAAGATGTCAACCTGA
AGCAAAATAACCAACACATAACAATAGGAGAAATGATACACGAAGTTGGAAGCGAGATAGAGAAAAAGAGATGA
TCAAGATGACGTTTCCAGTGTGAGAAGTGAGGGTGGTAATATCCGAGGTTCCCTTAGAGGTCGAGGAAGAGGCCG
AGGACGGGAAGAGGACGAGGCAGAGGAAATCCTCGATTGAACCTTTGATTATTCATATGGTTATCAAGAATG
TGAAAGGCTGATCAACCATTTCAAACAGAACTTAATACCAGTATGATGTATTACTATGATGGTACAGGTGT
ACAGGTGTATCCTGTGGAAGAAGCGTTGCTTAAAGAGTATATTAAGCGTCAAATTGAATATTACTTCAGTGTAGA
AAATTTGGAACGAGACTTCTTCTTCGGGGAAGATGGATGAACAAGGTTTCTTGCCTATTTCCCTGATTGCTGG
TTTTAGCGTGTTCAGGCTCTCACTACAAACCTTAATCTCATCTTAGAGGCACTGAAGGATAGCACAGAAGTAGA
AATTGTGGATGAGAAAATGAGAAAAAGATAGAACCAGAAAAATGGCCAATTCAGGCCCTCCTCCACGCAGTGT
GCCACCAACAGACTTCTCTCAACTGATTGATTGTCCAGAGTTTGTACCAGGCCAAGCCTTTTGCTCACATACAGT
CAGGGTGATGATCTTCTGAAGCTCTTGGATGTCAATTTGATCGGAATATGCAGTGGAAATAGGTGACTCACTGAAAT
GCCTTTATAAATACTGGAACAAATCCTGCTGCAAAAATGAAAGCGATCAGACTGTCTTCTGTTCAAGAAATGTCTA
TTCCACCTCTTGGTGGAGGAAGTTGGGCCAACACTGCAGTGGAGATAACCACCTTTGCGATAATGAGAGACAGA
CCAGAGGACTGCTACTCTTTTTATAGGAGCTGCCTATTTCTGTGTAATTGGCCTGGGCTGCATGGGCTGCTTTTA
TTCAATGGTGGGAAAGTTAATTATTATTATTCTGGAAATACCGCAAGATTATGTTTTCTGTTTCCAGGGTTATGTA
CTTGIGTCCAGATGAATAAAGCAGAAAAAGAGGGGATTGAGTAGCATTTCAGATTCTTAAGTACTTTGCTATT
CGATTTGCCCTTTCAGTGTAGTGTACATTGTAAACTCAGATATTGTCATGATGTTTCACTTGGACATAAGACTTA
TTAATGTGGTCACTTAAGGGTAAGGAATTTAAGAACTGGATGAGGTTATTTCTTCTTACTCTTCAAATGTA
TTTTTGATACATCAGTATGAGAGGACGTCCCATCAACAAAGCATCGATGATGGACAGTCTCACACTATTTTATC
ATATGTTTCTTGTGACGCTTCTGCTTCTAATCCCAGTAAGCAACTTGGACAGGCATTTTAAAGCTGAAGAAA
GTGACATTATTTAGCTAGTGGTTTTTAATTTATTTTTGTTAAGATATAATGGGTGATTATATAAGTTAGATTT
ATTTATGATATCAACTTGGGTCCAAGATGATAGTTTGTAGCTAGCTTATGAACATTGGGTTACAAGGCATTGGGT
AAGTTAGATAAAATAGCATATACTTTCTCTGCAGGGTAGGTAAGATAGGTCAGTCAAGTTGGTAATGCCTGTCCA
TTAACCATTTATGCATACTAATAAAATTATAAGAATAAAATCATAATGTTGT

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FIGURE 1723

LSGRPSSPSPRLRGQLPALAARASPTRVKLLGLGVLRRLRGCPAPEFGSLKIIKAGKLKTKKSNKASDFSMDENWP
TPSELVNTGFQSVLSQGNKKPQNRKEKEEKVEKRSNSDSKENRETKLNGPGENVSEDEAQSSNQKRANKHKWVP
LHLDVVRSESQERPGSRNSSRCQPEANKPTHNNRRNDTRSWKRDREKRDDQDDVSSVRSEGGNIRGSFRGRGRGR
GRGRGRGRGNPRLNFDYSYGYQEHGERTDQPFQTELNISMYYDDGTGVQVYPVEEALLKEYIKRQIEYYFSVE
NLERDFFLRGKMDEQGFLPISLIAGFORVQALTTLNLILEALKDSTEVEIVDEKMRKKIEPEKWP IPGPPPSV
PPTDFSQ LIDCPEFVPGQAFCSHTVRVMIF

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FIGURE 1724A

CCAGGGAGAGGACTGCGGCCAAGAGTGCCCGGTGGGGACGTTTTGGCGTGAAGTGCCTGAGCTCACTGCTCCTGT
GGGGGGGCCACCTGCCACGGGGTCACGGGGCAGTGCCGGTGTCCGCCGGGAGGACTGGGGAAGACTGTGAGGCA
GGTGAGTGTGACCCGACGCCAGTTCCGCCTCCCCAGGCTGCACGGCTCCAAGCTGGTGGGGCCCTGAACTGTG
GGGGCCCCAGCCCTGCGGATCCAGGCCCGTCTATAGCAGGTGTGAGAGCTCACAGTGCCTCCCTGGGGTAGG
GAGGGGGGGTCTGTGGCTGCCCCACCAAGTTCTTGGGGCTCCAGGCTGCCCTCTCGGGTGTCTCCTCTCTGCA
TGAGGCTCCATCTCTAACGGGCTCGGCTCCTTGTGTGGCAGCTGAACGGTGGCGGGGGTGGGGTCTCTACT
GTGGGTGCGCACCCCGCAGCCTGCAGCCCCAGGAGGTGCCGGGTCTCTCCCTCCCCGGGGCAGGCTGAGATG
GTAACAGTGGTTCCACCTCCTCGGCTGTGGCTCCAGGGGCATCGTGCCATGTTATGTTGATGTGTTGAGCAAGGG
CAGCTTGGGCACTGACTGGCCATGGGGGTGGGCACTAGATTGTCCCAGGGCCGCTGGGGGTGGGCTGCCAGGA
GATCTGCCCAGCATGCCAGCAGCTGCCCCGTGCGACCTGAGACCGGAGCCTGCCTGTGCCTCCCTGGCTTCGT
CGGCAGCCGCTGCCAGGACGTGTGCCAGCAGGCTGGTATGGTCCCAGCTGCCAGACAAGGTGCTCTTGTGCCAA
TGATGGGCACTGCCACCCAGCCACCGGACACTGCAGCTGTGCCCCGGGTGGACCGGCTTTAGCTGCCAGAGAGC
CTGTGATACTGGGCACTGGGGACCTGACTGCAGCCACCCCTGCAACTGCAGCGCTGGCCACGGGAGCTGTGATGC
CATCAGCGGCTGTGTCTGTGTGAGGCTGGCTACGTGGGCCCCGGGTGCGAGCAGCAGTGTCCCAGGGCCACTT
TGGGCCCCGGCTGTGAGCAGCGGTGCCAGTGTGAGCATGGAGCAGCCTGTGACCACGTGACGGGGCCCTGCACCTG
CCCCGGCCGGCTGGAGGGGCACCTTCTGCGAGCATGCCTGCCCGGCCGGCTTCTTTGGATTGGACTGTGCGAGTGC
CTGCAACTGCACCGCCGGAGCTGCCTGTGATGCCGTGAATGGCTCTGCTCTGCCCCGCTGGCCGCCGGGGCCC
CCGCTGTGCCGAGACCTGCCACGCCACACCTACGGGCACAATTGCAGCCAGGCTGTGCCTGCTTTAACGGGGC
CTCCTGTGACCTGTCCACGGGCAGTGCCACTGTGCCCTGGCTGGATGGGGCCCTCTGCCTGCAGGGTAAGCC
ACATCTAGGAGTCCAGGGACCGGGGTCCAGGCTGAGCGAGGGTGTGGCCTCTTGACGGGGCCACAGGACACTT
GGTGCTGGGGGAGGGAGGAAGGGCTGTTAGGACTGAGGACCGTGCCCTTTCACCTGTGCCCTCTCCAGGCAGG
GATGGGGAGTGAGGCTGGGCTGGCAGGTATCCTAGGGGCAGCCCCCTGCAAGGTGCCTGACCCCAAAGTCCAAC
ATGGGGCTGGAAGCCAGACAGACCTGTGGGGCCAGCTGGCTGGGGGATGCAGGTTGCTCCCTCTTCCCTGGCC
CCAGCCTGCCCTGCCGCCCTGTACGGCGACAAGTGTGGCATTCTGCTCTGCCAGAACGGAGGGACCTGTGAC
CCTGTCTCAGGCCACTGTGCGTGCCAGAGGGCTGGGCCGGCTGGCTGTGAGAAGGAGTGCTCCCCGGGAC
GTCAGAGCTGGCTGCCGGCACAGCGCGGTGCTCAACGGGGGCTGTGTGACCCGCACACGGGGCCGTGCCTC
TGCCAGCCGGCTGGACTGGGGACAAGTGTGAGAGCCACCTGCCCCCGCTGTCTGGCCACAGATCCCCAC
GGGGCCCTCTAGAAGCTCCGACGCCCTCATCTTTCTGAGCCTGCCTGCGGGGCTGGTTTGGAGAGGCTGTG
CCCAGCGCTGCAGCTGCCCGCTGGCGCTGCCACCACGTCACTGGGGCTGCCGTGTCCCCCTGGCTTCA
CTGGCTCCGGCTGCGAGCAGGCTGCCACCCGGCAGCTTTGGGGAGGACTGTGCGCAGATGTGCCAGTGTCCCG
GTGAGAACCCGGCTGCCACCTGCCACGGGACCTGCTCATGTGCTGCTGGCTACCACGGCCCCAGCTGCCAGC
AACGATGTCCGCCCGGGCGGTATGGGCCAGGCTGTGAACAGCTGTGTGGGTGTCTAACGGGGGCTGCTGTGATG
CGGCCACGGGGGCTGCCGCTGCCCCACTGGGTTCTCGGGACGGACTGCAACCTCACCTGTCCGAGGGCCGCT
TCGGCCCCAACTGCACCCACGTGTGTGGGTGTGGGCAGGGGGCGGCTGCGACCTGTGACCGGCACCTGCCTCT
GCCCCCGGGGAGAGCCGGCTCCGCTGTGAGCGAGGCTGCCCCAGAACCAGGTTTGGCGTGGGCTGCGAGCACA
CCTGCTCCTGCAGAAATGGGGGCTGTGCCACGCCAGCAAGCGGCAGCTGCTCCTGTGGCTGGGCTGGACGGGG
CGGCACTGCGAGCTGGCTGTCCCCCTGGGCGCTACGGAGCCGCTGCCATCTGGAGTGCTCCTGCCACAACAAC
AGCACGTGTGAGCTGCCACGGGCACCTGCCGCTGCGGGCCCCGGCTTCTATGGCCAGGCTGCGAGCACCCCTGT
CCCCCTGGCTTCCACGGGGTGGCTGCCAGGGGTGTGCTGGTGTCAACATGGAGCCCCCTGCGACCCCATCAGT
GGCCGATGCCCTGTCCCTGCCGGCTTCCACGGCCACTTCTGTGAGAGGGGTGTGAGCCAGGTTTATTGGAGAG
GGCTGCCACACAGCGCTGTGACTGTGACGGGGGGCACCTGTGACCCTGTACCCGGTCTGTGCCCTTGGCCACCA
GGGCGCTCAGGAGCCACCTGTAACTGGATTGAGAAGGGGCCAGTTTGGGGCCAGCTGCACCTGCACTGTGAC
TGCGGGGGTGGGCTGACTGCGACCTGTGAGTGGGCAGTGTCACTGTGTGGATGGCTACATGGGGCCACGTGC
CGGGAAGGTGGGGCCCTCCGGCTCCCCGAGAACCGTCTTAGCCAGGGCTCAGCGGGCACACTGCCCGCCTCC
AGCAGACCCACATCCCGGAGCGGTGGACCAGCGAGGCACTAGTAGAGGCACTCCCGTGGAGCCCGCTCTCCAGT
CCCAGCCAGAGGGGACCTTGGCTTGGTGACCACTGAGAAGGACACTTACGGGGCCAGAGCTCCTGGTACTGC
CCTTCTTTGAGGGCCGTGGAGGGCTGTGGACAGCCAGCAACCTGTGCTCTTGGAGGCTGGTGTGGCCTTGAG
GAGGGAAGCCTCGCATGGCCGTGGAAGAGAGGCGCTCCTGGCTGGCTGTGAGAACCAGGGGCACGCTCTG

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FIGURE 1724B

GGCCTGGGCTGAGGAAGTCCCGCTCTCCCGCGGCTCTGAGTTGGACTGAGGACAGGTGTGGGCGCCAGTGTGGG
TGCAGGCGCAGGTGCAGGCACAGGGCCACTGTCTCCAGGCAGGCTTTTTGGTGCTAGGCCCTGGGACTGGAAGT
CGCCCAGCCCGTATTTATGTAAAGGTATTTATGGGCCACTGCACATGCCCGCTGCAGCCCTGGGATCAGCTGGAA
GCTGCCTGTCTCTCTGCCCCAATCCCCAGAAACCCTGATTAGGTCTGCAGGCTCCTGCGGGCTCACCAGGCTG
CTGGCTCCGGTACCATGTAAACCTAGGAAGGTAAAGGAGCAGGCAACCTCCTCGTGGCCTGTGTGTTTGTGTGT
TACGTGGACTCTGTGTGGGCTCCTCCCTGGGGCCCGGCCAGCATACCGGTGCACCCAGGGACCTCCCAGTGCACC
CGGGGCCCTTTGCAGGGGTGGGGGTGCCACACAAGTGAAGAAGTTGGGACTCATCTCAGTTCCCAGTGTATTGA
GGAGAACGCTGGGGCTGCATTTCATTACCGCTGAGACCCAGAGACTGGCTGTTCCCAGAGAATGGCCCAGGGGGAG
GAGGGCTGGTGTGGAGGGGGCAACCTGGACTGAGGCCGAACCTCCCTTGGGCTCACCCACCCACCCCTACCTGAGC
ATCAGCAGTGGGGGGAGGGCAGCATCGCAGGGGCAGGACTCCCTGGGTGAGGACAGACCAGCCCTCCCGAGCAC
CTGGCACTCATGGGCTGAGGCTGACTTCTCCTGGAAGAAGGGCCCAGAGTGAAGGAAGAGGCAGAGGGTAGAGG
TGGTGGCTGGGGGCTCCTCTGCAGAGTGGGGTGGCCAATGGAGAGGGCTGCACTCACACCGCAACATAGGACTCT
CTCTCCCTTAAGAAGGCCCCCTTAGGGTCTGGGCTGCCGCCCCCATCACCTAAAACAGCCAAGGTAGCTGAGG
CCCCAGGGCAGACAATTTACCAGCAGGAGGAGGAGGTCCAGTGAGCTTGGTTGCTCACAGACAGCAAGGGAG
CTGTACAGAGGAAGCTGATGAATGGACCGCTGTGGGGAGACTTTAAAGTAGAACAGTGATAAGGGAGGGCAGGA
TGGTGGGGATGCAGAAGCAGCAGCCAGAGAGACGGACTGGGGTGCAGACGGAGTGTGGAAAACGCATACCTTG
AAATGAAGCATCCAGCAGATGGGGTGAGTGGATACAGCTCAGGAGATTCTCCAGGAATAGCAGGGAGGCGTAAA
GAGAGACAACGTACAGAGATAGATGAATGGAAATGGGTAAAGGGAGGTGTTTATTACATCCATCTAACTGCAAAA
TACAAAAGTAAGAAGTCATTGACATGAAGCAACGACGACCAAGACGTTCTCAGATCTAAAGGTGAATGATCTCAG
TCAGCCTGGAAATGCACAAGGTGGAAAAATAACATAAAAAAGCCATAAGACCTTGAAGAACATCAATGTCAAAGA
TAAATTCTAAAGTCCCAGAGAAAAAAGAAATGGGAATCAAATTGACCTCAGACTATACGTGAGAAACACGGAGAGC
CAGAAAACTGTGATGTTCCATCCTCAGAGTTTGAAGGAAATATTTGAAGGCTGAATTTTACATCCAGCTAAACTA
TCAAAGGCATGCAAAGTCCATGTTATTCTTAGGCCTTCAAGGCCTCGGCCATTTTCTACAGAAAAGCCTGATTT
TAAATGCTCTTAGAGACGTTCTCCAGCCAGAAGAGAAAGAAAGCCAGGAGGGTGCTCTGAGATATTAGTACCA
CAGTTCCCAAATGGCCTAGGAATTCAGAGAGTCAGAATATCACCATTACTCCCAATGGGAACCCCCGACAGTCT
CAGCATGGTGTGAGGGTGTGGACGGGGGGCCTGGCAGGTACCAATCACTCATCCCGCTCAGTGAAGACACAGTGT
TCAGCTACGGAAGCCATAAGGCAGGCCGAGCTTCTGCCCATCCGGAGGAAATCTCAGCTATCCAACGGCGGTACG
GAGCAGAGGAAAATAAAGCAGAATAACTAGAAAACACGCTCAGATCCTAATGTTAACGGTTACAAATGACGAC
GGAAAAACAACTCCTGACCATATATTATATAGTTTCAAGCAGCAAGAAGGAGGATATTGAACATTCTCAACACA
CATAATAAACGCTTGAGATGATGATATGCTCATTACCCTGATTTGATCACTAGACATCCCATGTATCAAAACATC
ACTGTGTATCCGATGAATATCTACAATTATTGTCAATTAACACATCATTAAAAACAA

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FIGURE 1725

MGLESQIDPVGPAWGMQVAPSSILAPACPAGLYGDNCRHSCLCQNGGTCDPVSGHCACPEGWAGLACEKECLPRD
VRAGCRHSGGCLNGGLCDPHTGRCLCPAGWTGDKCQSPPAPGLSWPTDPHGPLEASAALIFLQACGAGLERPV
PSAAAARLALPATTSLGPAAVPLASLAPAASRPAPHAALGRTVRRCASVPVTRPATLPPGPAHVLLATTAPAAS
NDVRPGGMGQAVNSCVGVSTGAAVMRPRGPAAAPLGSSGRTATSPVRRASAPTAPTCTGVGVRGRPATL

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FIGURE 1726

CTCGGGGTAATGCTCTTCTCCAAACTGTTTTTCGGAAGCAGCGGTGAACGGGATCGTGCACGATGTGGACGTGCT
GGGCGCGGGCATCCGGCTGGTGACCCTGCTGGTGGATCGGGACGGGCTGTACAAGATGAACCGCTGTACCTCAC
CCCCGACGGCTTCTTCTCCGAGTCCACATGTTAGCCCTGGACTCCTCCAGCTGCAATTAAGCCGTGTCCAGAGTT
TAAACCTGGTATTGAAACTGACCTGAATGACGCTGCATATGTACTTTATACCACCGTTTGTAACTGGGTGCCAC
AGCCCGGGCTGTAGGTCGCCCAGCCTTTTTTTGGGAGCGATGGGGAACAATGACATGAATGGGATTAGACGACA
GGCAGCAGGTATATTGTGATGGGCCACATCTACCATAAGAGACGGCAGCTCCCTACAGCTCTGCTCCAGGTCCTG
AGAGGCCGCTCCGTCCAGGGATGGACTGCTAAGGAGCAGCAGCAGCTATGTGAAAAGGTTTAAATCGAAAAAGG
AAGGGCAGATTCAAGGTGCAGTTCATACCCAATGCATTTGAAACAACCATCCTGGCATTCTTGGACCGCAAGAGA
CTTGGACGTCGGCAACAAGACATGAAAGGTCTACCTTCATGTAATGGGTCTCCTTCAGAAGAGAGCCCTCAGCT
ACTCTGTGAATGACTTGCTAGCTGCAACTGTAATCTCGAAGGTGTCACTTTGTTATTTACAAGATGCTTCTTAA
ATGGGCTGCTCCTGAGCCTCAGTGTCAAGGTGATTCAACTGTTGTGCCAGACAGTGATTTACACAGCTCAGATAA
CTGACCTGTCTAGTTAACAGATCACTGCTTCATGTTTTCAAATATTTTAATTTAATACATTCTTTAGTAGAAATA
GTCCACAAAAACATTTTTCTTGAATTTAAATATACAACTTTTATATCATGTATCAAACCAGATTTTATATTCAAAC
GATCACATTTTAAATTCTGTACATAACAGTAAGCGCACTAGTCAAAAGACATTTATGTTTGAATGTCATTTAGA
TCAAACACAAGGGTCAAAGCCCAGGACAAGTATTAAAGTTTTATACTTAAAGAGTACTAAAGGGCCAGTGTGCAG
ATGGGTGGATTAAAAAAATAAAATAAAATAAAATAGTACTAAAGGGCTTACTTCAGGCAAAAGTGTCTCTGACG
TACCAAAAAGTAAGATATAGTTTTATTTTCATGCCTCCCTGCTCCTAGTAATGTATGTTTTGTGCTGAACTGGCAG
CTATCCCAATGTGAAATGTATTTTGGATGTATCTGGTGTCACTTTTCTATTAAGACCAAGTATAATGTTTGTGTTG
TAAAGCAATAAATCTTGACTTGAAATCAGATCTTGGATGCACCTGTTGTTTTGTTTTAGCCTTACTGAGCCCT
AAAGGTTTGAGAAAAAGGCTTTCTCAAATTCATTCCCCAACCTTGGAAACCAATATTCACCAATGACGGCTCACA
AGCAAGCGAATTTTAAACATTTTTTCAGTTGGTTTTAAAAAGGTTTAAATGGCCGGG

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FIGURE 1727

LGVM LFSKLFFGSSGERDRARCGRAGRHPAGDPAGGSGRAVQDEPPVPHPRLLLLPSPHVSPGLLQLQ

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FIGURE 1728A

TTTTGGCTGCCTCTGTCTGGTCTGTTTCAGTTACCACGTGAACCGCCGACGGAGACCCGTAGTGGGGGAGGCGGCGG
CAGCGTTAAGTGAGAAAAGGAAAAAGACAACGAGGAAAAAGGAGGTGTCCGGGTAGGGCAACGCGGCGACACCCG
AGGCCTGGTGGTGGCGGCGGATCGAGATATTCAAGGCTGAAGCAGCTACGGAACGGCAGCGCGCGGCGGTTCGGACA
AACTGACTGACCGAGCCGGGTGGTGGCGGGAGCAGCGGGAGCAGCCGGAACGATGCGCGCCGTGAGCCTCCCGCC
CAAGGAGAATGCGCTCTTCAAGCGGATCTTGAGGTGTTATGAACATAAACAGTATAGAAATGGATTGAAATTCTG
TAAACAAATACTTTCTAATCCCAAATTTGCAGAGCATGGAGAAACCTTGGCTATGAAAGGATTAACATTGAAGT
TTTGGGAAAAAGGAAGAAGCTTATGAATTGGTTCGTAGAGGTTTGAAGAAATGACTTGAAGAGTCATGTGTGTTG
GCACGTTTATGGCCTTCTTCAGAGGTCAGACAAGAAGTATGATGAAGCCATTAAAGTGTACAGAAATGCACTAAA
ATGGGATAAAGACAATCTTCAAATCTTAAGGGACCTTTCCCTTACTACAGATTCAAATGCGAGATCTTGAGGGTTA
CAGGGAACGAGGTATCAGTTACTTCAGCTTCGACCTGCGCAGAGAGCATCATGGATTGGTTATGCTATTGCTTA
CCATTTATTAGAAGATTATGAAATGGCAGCAAAGATTTTGAAGAATTTAGGAAAAACAACAGACATCCCCTGA
CAAGGTGGATTATGAATATAGTGAACACTCTTATATCAGAATCAAGTTCTTCGGGAAGCAGGTCTCTATAGAGA
AGCTTTGGACATCTTTGTACCTATGAAAAGCAGATTTGTGATAAACTTGCTGTAGAAGAAACCAAAGGGGAAGT
TCTGTTGCAACTATGTCGTTTGAAGATGCTGCAGATGTTTATAGAGGATTGCAAGAGAGAAATCCTGAAAAGT
GGCCTATTACAAAGGCTTGGAAAAAGCACTCAAGCCAGCTAATATGTTAGAACGGCTAAAAATTTATGAGGAAGC
CTGGACTAAATATCCCAGGGGACTGGTGCCAAAGAGCTGCCGTTAAACTTTTTATCTGGTGAGAAGTTTAAAGA
ATGTTTGGATAAGTTTCTAAGGATGAATTTAGCAAGGGTTGCCACCAGTCTTCAATACTTTAAGATCATTATA
CAAAGACAAAGAAAAGGTGGCAATCATAGAAGAGTTAGTAGTAGGTTATGAAACCTCTCTAAAAAGCTGCCGGTT
ATTTAACCCCAATGATGATGGAAAGGAGGAACCAACACATTACTTTGGGTCCAGTACTACTTGGCACAACA
TTATGACAAAATTTGGTCAGCCATCTATTGCTTTGGAGTACATAAAATACTGCTATTGAAAGTACACCTACATTAAT
AGAAGCTCTTTCTCGTGAAAGCTAAAATCTATAAGCATGCTGGAAATATTAAGAAGCTGCAAGGTGGATGGATGA
GGCCCAGGCTTGGACACAGCAGACAGATTTATCAACTCCAAATGTGCAAAATACATGCTAAAAGCCAACTGAT
TAAAGAAGCTGAAGAAATGTGCTCAAAGTTTACAAGGAAGGAACATCAGCGGTAGAGAATTTGAATGAAATGCA
GTGCATGTGGTTCCAAACAGAATGTGCCAGGCTTATAAAGCAATGAATAAATTTGGTGAAGCACTTAAGAAATG
TCATGAGATTGAGAGACATTTTATAGAAATCACTGATGACCAGTTTGACTTTCATACATACTGTATGAGGAAGAT
TACCTTAGATCATATGTGGACTTATTAAGCTTATGAAGATGTACTTCGACAGCATCCATTTTACTTCAAGGCAGC
AAGAATTGCTATAGAGATCTATTGAAGCTTCATGACAACCCCTTACAGATGAGAATAAAGAACACGAAGCTGA
TACAGCAAACATGTCTGACAAAGAGCTAAAGAAGCTACGTAATAAACAAGAAGAGCTCAAAGAAGAGCCAGAT
AGAAGAAGAGAAAAAAATGCAGAAAAAGAAAGCAGCAGAGAAATCAGAAAAAGAAGAGGATGATGATGA
GGAGATAGGAGGTCCAAAGAAGAACTTATCCAGAGAACTGGCCAAGGTTGAACTCCATTGGAAGAAGCTAT
TAAATTTTAAACACCGTTGAAGAAGCTGGTGAAGAACAAGATAGAGACTCATCTTTTGCCTTTGAGATTTACTT
TAGGAAAGAAAAGTTTCTTTTATGCTACAATCAGTAAAGAGGGCATTGCTATTGATTCTAGTCATCCCTGGCT
TCATGAGTGTATGATTGCTCTCTTAATACTGCAGTGTGTGAAAGTAAAGATTTATCTGATACAGTTAGAACAGT
ATTAAACAAGAAATGAATCGTCTTTTGGAGCAACGAATCCAAAGAATTTAATGAACTTTTCTGAAAAGGAA
TTCTGATTCAATGCCACACAGATTATCAGCTGCCAAATGGTATATTACTTAGATCCTTCTAGTCAGAAGCGAGC
TATAGAGTTGGCAACAACACTTGATGAATCTCTCACTAACAGAACTCCAGACATGTATGGAGGTATTGGAAGC
CTTGATGATGGTAGCCTAGGAGACTGTAAAGAAGCTGCTGAAATTTATAGAGCAAATGTCATAAGCTTTTCCC
TTATGCTTTGGCTTTCATGCCTCCTGGATATGAAGAGGATATGAAGATCACAGTTAATGGAGATAGTTCTGCAGA
AGCTGAAGAAGTGGCCAATGAAATTTGAACATCACTAAACAAGCAAAATGGAATGACTTTGGACCATATCTAGTAT
ATAATATTTTGTACGCACCTGCTGCATTGCTCTAACTTACACAGAATGAGAGGAGTAAATGTTCTTGCTTCA
AATAGTGTTTTACGTTTTTTATCCTGCTGAAAAAGTATATATAAAATATCTAACATTACAGGATAGAGGTTTCAGT
TTCTTAAAAAATTAAAGCTGCTAAAAATGAGTGGTTAAAAAGATACCTTATCCTATTCTCCCCACCCACCCAT
GTTTTTAACTAATTTATATAAAATCTGGAGGCTGTTACAGCTAACAAAGCAGGTGTGTGGCAGAAATATTACTT
TAAATTTGCTTTGTGAGATTTTACTATATCTCAGACAGCATAAATGCTGTTTTAGCACTGGATTCTTTCAGT
CACAAAGAGTTGTTGGGGCTTTAGCATCTGACTGATTTGTTACGGGGTTGATTCTGACCATAGGAAGTATGCAA
TGTGAATCACTATTTACAGAGAAACCTACAACAGATGCTTGATGTTGTAGAACTGGGACATATAGATACCAAGC
AAAATTATAAGAAACCTATAAGGTGTTCAATACGCTTGTTTCCAAAATTCAGTGTACATGATCAGTTTGGTGT
TCTTGTACCACAGTTTTTAAGTGAAGGAACAGTTGTAACAGTCTCAATTTTAACTAAACTTGAAGAAGTAAAA

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FIGURE 1728B

CAACAATGCAAACCTTTTCAGCATTGTTTGGCCAAACTGTATAAACTGTAATGCAAGAACCAAATGCACTGTGAT
GTGGCACCACCTAATTAGCAAGCATGAATTTTTCACCCAAGAGTGAAAAAAGGAAAATCTACCATGGCTTGAAGT
TAAAGAGCAGAACTCCTGACTACCATTTCTATGACTGATCAAAAGACTAATAGTTAAAAACCTCAGCAGGCCTTGT
TCACGATATGCAGAAAAAAAGTGCTGCAGTTTAGATACCTCTGGAATTTTCCACAGTGTACAGGTTTGTAAAT
ACTTGAAGCCCTACATTTCTAAGAATATATTTCTTGCTCAGTTGTTTCAGGCAAGCCCAAGACTTTGTAATTTT
AAAGGGCCCAAGATTTTTTTTTTTTTTTTTTTTTTCAAATAACAGACCAGCTTCTTTTTCTTGCACTTACAGATGT
AATTTCTTTTTGTTGTCAAACATAAGGTACCAAATATGATGCAATAAATTGTTTTGAAAAACAGTTGTGTGAAT
ATTTCAACTAATCTGIGTTGGGCTTCTGTGAAATACACAGGTGAAACAGAGGTGCAAGCCAGAGGCAATGTAAT
ATGCTGTAAGGCTAGTGCAGATGGGAGCTTTTTAGAAGGGGCTAAGTGCTGGTGTGAGGGAAATCCATAATGAA
GTAGAATGCTGCTCCTGCATTAAAGATTTCAATTGAGGGCAAGGCTGGTGGCAGGTACTATGAATGTAATTCATAAT
TAAAAAGGAAACTAAAAACTATTTTGATTTGGGAAATGAGCCTTAATTTGTTAAACCTATACACTGAGAACTA
GCCTCAGGCTTAATATTCTCATTGCAAGATCTGAGCAAATAAGATTAAGTAAACAAATCAATTGTATA
TATAATTGACCTTTTTGTGGAACATGTAGTTTATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTAC
TGATTGAACAGTTGTGCTACAATCACTTTTCATAGTACATGACCTGCATTCCACATCTCAGTCTAACAGTTTAG
TAGTGATGTAAGAGAAGTACAAACCGAACTCCAGTGCTTTGTTATGTTTTATTAAGTGGCCCTGTCTCAGGAAC
ATCTTAACAGATGGCAAAAAAACAAAACTTTTTTCAACTCCTATGAGTGGCAACTGAAGTTCTTATTGTTGGG
AAAGAACACTAGTCCTACCTCTGCCACTAATGAGGTGTTTGGAGGAGGTACCAGCCATATAATAGGGGGTGTATG
TGTGAATTTTGTATAAACTCTACTGTATATTGAAATGAAATTCATTTATTTGCTTGACAATGTTCAAATGATGT
AGATTGTCTTAGAATGAATATTCATAAGTACTCAGAATCTTAAGATGCAGATGCCACCCGTGAGGAGCTAAATT
CCTAATGTGTATTGTATTCCAACCAATTTTACTGGAATATTGAATAAATCTTTATTTTCTTTTCAAGTTTACT
TGATAGTGGATACATTGGTGTGAGAGGACCTTGACTGGGTTCAATTTATGTCCAGACATCACCCCTGAAACACTG
TACTGTACTATCTTGCTCTGAGTAGTATCAACTGGATCGTCTCATATTTGCCTCATTATCCTATTAATTTCAA
TGATACTGTGGGGGAAAAACAGGGTTAGAAAAACAAGTGGAAAAAATGGAGTGATGTTGTAATCTAAACAAGTGC
CTTATGTTTATTGCTAAGAACTGGTGTACCAACCCTTTTGAGAAGAAAGGGTCTCTTGACCTGTATTAACATAG
GAAAGTAAAGTTCTTTTTGTTTTCTTTATAAGCTACTCTTGTCAATTTCTCGTTGAAAACTAAATCTGACTAG
GTTAGTTTACTCAGCTTTAATTAGATAGTTGAGTCATATATTTCAACATTTTCTGTATCGTATTTATTATGCA
CAAAAATAAGTGTGATCTCTAAT

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FIGURE 1729

MPAVSLPPKENALFKRILRCYEHKQYRNLKFKCKQILSNPKFAEHGETLAMKGLTLNCLGKKEEAYELVRRGLRN
DLKSHVCWHVYGLLQSRSDKKYDEAIKCYRNALKWDDNLQILRDLSLLQIQMRDLEGYRETRYQLLQLRPAQRAS
WIGYAIAYHLLLEDYEMAAKILEEFRKTQQTSPDKVDYEYSELLLYQNQVLREAGLYREALEHLCTYEKQICDKLA
VEETKGELLQLCRLEDAADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKYPRGLVPRRLPLNF
LSGEKFKECLDKFLRMNFSKGCPPVFNTLRSLYKDKEKVAIEELVVGYESLSKSCRLFNPNDGKEEPPTLLW
VQYYLAQHYDKIGQPSIALEYINTAIESTPTLIELFLVKAKIYKHAGNIKEAARWMDEAQALDTADRFINSKCAK
YMLKANLIKEAEEMCSKFTREGTSAVENLNEMQCMWFQTECAQAYKAMNKFGEALKKCHEIERHFIEITDDQFDF
HTYCMRKITLRSYVDLLKLEDVLRQHFPFYKAARIAIEIYLKLDNPLTDENKEHEADTANMSDKELKKLRNKQR
RAQKKAQIEEEKNAEKEKQQRNQQKKKDDDEEIGGPKEELIPEKLAKVETPLEEAIKFLTPLKKNLVKNKIETH
LFAFEIYFRKEKFLMLQSVKRAFAIDSSHPWLHECMIRLFNTAVCESKDLSDTVRTVLKQEMNRLFATNPKNF
NETFLKRNSDSLPHRLSAAKMVYYLDPSSQKRAIELATTLDSELTNRNLQTCMEVLEALYDGSIGDCKEAAEIYR
ANCHKLFPYALAFMPPGYEEDMKITVNGDSSAEAEELANEI

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FIGURE 1730

CACAGAAACATGATGTGGAAGTGCTGGAACGGAACCTCCAGACCATCCTGTGTGAGTTTGAGACCCTCTACAAAG
CTTTCTCAAACATGCAGCCTCCCGCAAGGATGGAAAATGAACAGCACCCCGAGCGGGGAGTGGTTCACCTTTTACT
TGGTCAATCAGGGGGTTTGTGTCCCAGGAAGTGTAGGAAGTGCCACGGACGTACCGCTTGCTCGGAAGCCTTC
GGACCTGTATTGGGAACAATGTTTTTGGGAACGCGTGCATCTCTGTGCTGAGCCCTGGGACTGTGATAACGGAGC
ACTATGGACCCACCAACATCCGCATCCGATGCCATTTAGGTCTGAAAACCTCCAAATGGCTGTGAGCTGGTGGTGG
GGGGAGAGCCCCAGTGCTGGGCAGAAGGGCGCTGCCTTCTCTTTGATGACTCTTCTCTGCATGCTGCGTTCCATG
AAGGTTTCAGCAGAGGATGGCCACGGGTGGTTTTTCATGGTGGATTGTGGCATCCAAACGTGCGAGCGGCCGAAC
GGCAGGCTCTTGATTTTCATCTTTGCTCCGGGACGATGAGAGTATTTCCCATGCTGGAGTCCGCGAGAAGGGCCGA
GGCGGGGCTTGGGCAGACTGTGGTCCGGTCCAGTCCCTACCGGTGTTGTTTCCATGCTCAGAAACCTGCCTCAGC
GGAAAGCTCTTATTTGGGATTTTATATCATGTCCGGTCCCTCTTTCCCTTGGTTATTGTAAATGGAACTTTTCG
GCTTGATTTTCTTAGATTTTTTTTTTTTCTTCCAATCATTGCTTCAGAGACTCCTTCTGGCCTAACAGCGC
ATTCTTTGATTGGTCTTGAGTGACCAGAGACTTAGTGCCCTGTAAGTCTGTCTTCTGTTGCTACTTGTTTTT
TTCAGTGCTCTGAAATAGAGTAACTAAATGGTTATTTGTCTGAATATAATAATGTAAACTTCTTGTGGTCATCT
TAAAAAAGCTCTTATTTGGGATTTTATATCATGTCCGGTCCCTCTTTCCCTTGGTTATTGTAAATGGAACTTTTCG
CTGGGGACCTTCAGCCACCTGACGGCAGGGGGACAGTCTGCAGCCCCACACCTGACTGGCTTCAGTAGCCAGG
TGGAGGGGCTGCCAGACACAGTCAGGGTGGCACACAGTGTCCAGGCCCAGGGATACTGTCAACATCGCTCACCTC
ATTCTAAACCTTGTCAAGTCCCTGATGGCAAAAGCATTGGGGCAGTAGGACTGGAGGCTACTCTTTAAACATGGC
TTTCTGCAAAGCTGAAGCTGGTGTCCCCCAGCACCAAGCTGCGGCTCACACAGATCAGCCACGGAACGTGTGAT
CCGCTTACCTCACTGCCTACAGAAGCCCTACTGCCAACTGGGCCTGGAAAATCCCAGTTTTAGGTGTTTTGAG
TCCACAGTGATGAACGTTAAGGCCACCAGGTTGGCTGATAGGAGCTGTAGGGGGATAGGACCGCGCTCACCAGC
GACATTTGGGGAAAGCCTTTCTCTGGCAAACTGGAATAATAGATCTGACCAAAGTTTCTGTTTTGCTTTGGAGT
TCTGTTGCCTATGTTTTTTTTTTTTTCAATTTATTTGTCTGTACATAAATGTTCAAACACTAGACTTGGAGATAGT
GGAAGAGTTGGCCCTGTGTCTTTGTCTATGGCACAAAGGTGTGCACTGCGTGACAATGACCCAAGCCAGTGTGTGC
TAGTGAGGAGACAGAGAAGACCTACATGCCAGAGGACCCGTGGCCGTTGTGCTGGTTTTCTGGTCTCCTGTGAA
GAACATGTGGATCTCTTCCCGAAGGAAAAGGTCCAGGAGACCAGTTTGAGGCACTCACTCTAGAAATAGCCTGT
GTTAGCTGATGTGTGAAAGCGTAGCCGGCCAGCCACACTAGAGATGCCTTTTCTGAATAATGTATTATGAGCAGT
GTCAGATTTATAAGCCGAGGAGTGGTTTGAATATACAGCTGGTCGCAGGTGCAGGTCCAGTGTTAGATCCAA
ATGGAAAACAGCAGCTTCTAAGAGGTACAACCTGTTGGAAGAAAACACAGTTGAAATGCACCAGGCAGGTACTAGC
AAGTGTGCAAAGAGCACGTCTACATTTGAGTAAAATGTCTACACAGATATTTGTCAGTGATGAGAATGCAGGAAA
AGGCAGACATTTCAAACATACCTGAAGTCTTTTACTCATTATCTTGTTAAAGAATCACTGAGGTGCATGATTTT
TACACATCGTGAAGTCTGCTCTGCGTTTACAAAACCAACAGCCCGCGCAGGTACCTAGCTACCTGCATTTCATG
TGACATGTCTGGGGAACAGAAGATAAATAAAGGATCTTGCTGAAAACAGAAAAAAAAAAAAAAAAAAGAAAA
AAAAAAAAAAAAAAAAAG

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FIGURE 1731

GAATTCGGCACGAGAATGAGCCCCACAGAATAAAGGTTTTTCTCTTGCTGTGGCCTACTGGAAGCCTTCCTAAC
TCTATAGCTGGTAAAGTAGAGCAGAAAGGGCCAGAATGGCTTAAGATGGAGCTAAATCCCTATAGCATTCCATTT
TCTGCTCTTGCCCTCTTGAACCTTAGAAGGCTTGCCCATATAICCTAACAACTCTGTTCTCTGAGCTGTTAGGCCAAT
CCCTGGTCTCAAACCTCCTGACCTCAGGTGATCCACCCACTATGGCCTCCCAAGGTGCTGGGATTGCAGATGTGAG
CCACCGTGCTGGCCAGAAAATCTGGATTCTTATTCTAGTTCTTCATTCTGTGCACATGCACCTTAGTTGACATT
ACATCTACATATATTAGCTTTTTCTACATGAGCCATCTATTTACTTAGTAACCAGTGTTCTTAATGAAGTATTT
AGTCTTGCGTTTTCTGTAAAATTTCTCTGCATTCCCTAGACAGTGTACTATACATGAAATATTCTTGTGACCTA
GTAATTTATATTATCCATTAAATCTTAAACCTATGGCCCTTTTTATTGAGCACACTCTTAAATCATTATTTGGC
TTGTAAACATTTCATCTGAATTGTGGCTACAATCCTCTTTAAATAATCTAGGAAAAAAGAAAGATAAAGCTTACAT
TTTCACAGTTTTTGGCTCTTAAACACATTCCACAAATGCCATTAAAGAATTTATTTTGTGTTTAGGCCAGTCATGGTG
GCTCATGCCTGTAATCCCAGCAATTTGGGAGGCTGAGGCAAGAAGTCTTGAGCCCAGGAGTTTGAGACTAGCCT
GGGCAACATAGCAAGACCCTGTCTCTACCAAAAAAAAAAAGTTTTTTTTGTTTTAGAGTCATTTAATGTGTTTT
TATGCACAATAATAGTGGGAGGTTGTTTTGTTGCATTTGTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGCTTTCCAT
GTGGGAAAAGTTAACATTGGAAGTGTCTAGTAAAAGATTTTTTTCAGGCTGGGCACGGTGGCTCATGCCTGTG
ATCCCAACACTTTGGGAGACCGAGGGAGCTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGG
AAAACTCCATCTCCACTAGAAATACAAAAGTAGCCTGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTTGGG
AAGCTGAGGCAGGAGAAATCACTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATCACGCCATTGCACCTCCA
GCCTGGGCAACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAGATGTTTTTTCATTTTTTTCATGTTATC
TATCCAAGCACTGTTCCATGGTCAGCAAGTCATATTTTATAATGTGGATTTTCCAAAATAATTATTGAATACAGC
TATTTCTATGGCTACTTTTAGTGTTTTTGTGGTATGTGGTGTGGGAGTGTGTTATGGAATTACCAGTATCTTAAATT
TTCAAAGGAACCTTGGAAGTCTATCACTCTAAATGAAAGTCTGTCACTCTACATGAATTATGTGCTCAAATTTGA
CCAACCTCAGTTTTAAGACACAAAACAGTAATTTGAAGAAGGAAAAATGAAGAGAGTTTCTAGTTTAATGGGTAAA
TTTTGTGTTGCAATAGTAAGTTTAGTCTTCTTATAATTTCTAAATGAAAAATCATAGGTATTTGTTACCAT
GTGTGAAGATTACTTTGTTAAAAGCAAAAGTGGTCTGTGTATATGCTAAATGTTAATTACTGATTTTATATGTTT
AAATCACGCCAAACAAATTATGTCTGTGCCATCCAGGCTGTGTTAATCTTTTTCTGAGTACTTGGATTGGGA
TAAAGGGCTTGACTATGCACTTTTTATTAATGAATAAATAGAAAACGTTAGTAACACTTTGTGTTTTCTGTTTG
GCTTTTGTGGGAAGAGAAGCAAGCATCTTTGCCTAGTAGATGTTAACATTGTGTATTAAACAGTTCTTTGTAA
GACCTAACTAAAGACATTCCCTAAGAGAGAACTTAAGTTTTAAGAAAAGTTGTGAGAAAAATATTCATAAAATATG
CAGTATGGGGCCAGTATTCCAGAAGTAGAGTTTCTCTCTTGGAAATTAGATTGCAGTCACATTTCTTGGTTATTT
TCTTTCTCTCTCTCTCTCTAGATAACCAGGTAAAATAGACATTTACTTTGAGGGACTAATATCCAATAGTGTTAA
TTATTTAAGCAGATATATCTAGCTCAAAAGGAACCAGACATGTCACTGTACCAAAAACACACAAAAGTGAAATTT
TGCTTCTGTTCTGTGACCTAGAATGTGTCCAGACATTAAAGATCATGAATACTCATATACATGTAAAAATAGTAA
CACTGCTCTGGCATGATTTTGACGTCAGTGTGTTATGTAATAACTTCAGTGTATATTTAAATAGATAAATTTGT
GAAATAACAATTTCTTGGAGACAGTCAACTTTTTATGATTTAATCTAAAGATTGTCATGTACATGTCAACGGATA
TCTGAATCCTCAGTGAACTGTTAAGTTTTTATTAATGACTCTGCTGCAATACTAGTTTTCTTCTCAGAAAATG
GAATTCAAATAAAATAAGTTTTTTGGTCTTGGAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

REPLACEMENT SHEET

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FIGURE 1732

MHLVDITSTYISFFLHEPSIYLVTSVLNEVFSLGFLVKFLCIP

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FIGURE 1733

TCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTTTATTCTAACTTTTATTTTATCAGTTACACATGAT
CATAATTTAAAAAGTCAAGGCTTATAACAAAAAGCCCCAGCCCATTCTCCCATTCAGATTCCCACCTCCCAG
AGGTGACCACTTTCAACTCTTGAGTTTTTCAGGTATATACCTCCATGTTCTAAGTAATATGCTTATATTGTCA
CTTCTTTTTTTTTTATTTTTTAAAGAAATCTATTTTCATACCATGGAGGAAGGCTCTGTTCCACATATATTTCCAC
TTCTTCATTCTCTCGGTATAGTTTTGTCACAATTATAGATTAGATCAAAAGTCTACATACTAATACTCACAGCT
GAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAACCTTTTATTGTCTTTGGCATTAAACAGTGTTTCAAAAA
ATTTTCTGTGTATACCCATCAGTGATTCAATCCCAAATCTTCTAGAAGCATAAGTGTCTCAATATATTTAAACAT
ATTGAATAATCCTTGTTAGAGTTATCCTTGCAAGGAGTCCTTAGTGCTCCTTTATCCAATTTGTACTTGATGCCCT
CTAGGCAGGGTGTACAGCTAGCTGTTGCTCTGGTATTTCCCTATAACCTTCTTGGGGATTTCTTTTACCTCCTGTG
TTAGACTCCIGTTTTCTGGATTCCCCCTTTTCCCTCTTTCTTGGTCTACTTTTGTAGAACACAAGACTCTACTA
GCTTCTGAGAANNN
NN
TCATTGTCATATTGAGAATCTAAATGGCCATTGCGATTCTTTCATCATCTTTATAATTTTACCTTCTATTTCT
TTCTGTCTTTTAAATGGAGTTTTGGGAGAGAGCAGAGGTAAACATGATTTCAAAAAGCCATGTCTGACCAGAAA
TTCTGTGCTGGCAAGATATGTATTTACCTTTAGGG

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FIGURE 1734

MPSRQGVQLAVALVFPITFLGISFTSCVRLLFSGFPLFPLSWSTFCRTQDSTSLRXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXETRSHCFIVTIENLNHSDSFIIIFIILPSYFFPVLLMEFWERAENVMI

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FIGURE 1735

AATTTAAATTTGTTTAATGCACTGGAAATAAAATTGGACATATTTCACTGTTTAAAAAATCAGAAACAAAACAA
AGCAAAACCATGAGGGAAAAAACAGCAAATAAGCAACAGGGGAAAAAGCTATGAAAAAATATATTTGTACTG
AATACACATACAACTACATCCCATGAAAGATTAATATCATCAAGTAAGAAAAATACATAGTTTAACTACAA
TGCTGAAATATAAAAGGAACCTGGTAGITTCAATGGGGATGGAGAAAACAGAGCATTCTCTGAGAGCAGAGATC
TTGTCATTATTGCAATTAATGCCCAAACAGGTTAAATGTGGAAGAAAGTATGGAGGAAATAACCCAGCCTTCCT
CATACCACTGGATTTCACATCACCTTTTAACCTTATGCTTGAGCTCCCTTTTGAGAAAAATATTTAAAAACAAA
TTGGCTATGTAACAAATTTGTGTGTGTGTGTGTATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGC
TTGAGAAAGTGGTTTTTCAAGATGTATGTGTACAGTACACACATGGACACGCTTCAGTCCTCTGACTTCCCATGT
GCTACCTCATGTGTTTCTTCTCTCATGAGGATTTGCAATGGATAGTTGTACAACCTGGGACTGTCAGTGACTCA
TTGGTATCAGCATATGCTAAAGAAGCTCTTGAATCCAATCTTGAAACCTGATCTCCCTTCGTCAACATTCCCCAA
TACCAAACCTGGCCCGTTTACCCATACAAATGCACAGTAAAGGGAAGAACAGCGGTATTTTCTAGCCAACTGAC
TCTATCATTGTGTTTAAATGTTTGTGCTGGTTTTTTTCTGGTTTTGTTTTGTTTTAGAGCAGGGGTGGGAGTGGCTGTA
ACTTCACAATCCTAATACAGTAAATGTTTTGCATCTTCCATGTTTTATGCAAAAACAGACATTTAAATCAATAAA
TAATTGTGCCCTAGACTGAAGGTTAATGTTTAGGAGAGGAAAAAATTGTTGGAATTTTTTCTACATTTTTTGT
GAAGAATCTTTTTTGGAAAGGAAGGATACATATTTTTGTTGTGTAATATTTCTATTTTGAATGCATTTTATTG
GTACAAGACTGTTTTTTTGGTGAAGACATTATTTAAAAAACAGTCTTGTACCAATAGTCGAC

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FIGURE 1736

MDSCITWGLSVTHWYQHMLKKLLNPILKPDLPSSSTFPNTKLARLP IQMHSKGKNSGIFPSQLTILSFV

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FIGURE 1737

GGGGGATCATAAATGACAGGTGTGTGGAGGTCAATTGCAAAGGAAGGACAAAACCTGAAAGAGCTATATTTGGTGT
CCTGTAAATACAGATTATGCACTGATAGCCATTGGGCGATACAGCATGACAATAGAGACTGTGGATGTCGGAT
GGTGTAAGAAATACAGACCAAGGAGCCACCCTGATTGCACAGAGCAGCAAGTCTCTGAGATAATTTGGGGCTGA
TGAGATGTGATAAAGTCAACGAAGTGACGGTGGAAACAGCTGGTGCAGCAGTACCCCCACATCACCTTCAGCACCG
TCCTGCAGGACTGCAAGAGGACCTTGGAGAGAGCCTATCAGATGGGCTGGACCCCCAACATGTCTGCCGCTCCT
CCTAGCGCTCCTGCCTCGCCTAGTCCACTGGGATCATTACAGCAGAGCAGAGGAGAATTGTACATTTGGGGAGCTG
ATCTCTCGGAAGGGTTTTAACTGTACCTGTCTGTGTGTGTTCAAGTAIGTGTATTTGTGTCTTGTTCATACT
GCATACCAAAAGTGCAGTTGTCAATTTGTTCCCAAGTGAGCTGGCTTTTTTCTTAGAAATTAAGATTATGAAAG
CCACAAACTTTTTAGTTTTAACTTCAAAGGCTTCTTTCTTTAAAAAAATTATTTTAAATATAGAGTCAAA
AAATTGGATGTATTATTCTGAGCTTCTAATTGCTGCCACTTGGAGATGTCCAAGTAAGAAGGCCTCTTTTTTACA
TGGGATGAATTGTGCACTTCTACTGATGATGACTACAGCAGAAGTGATGTTATACGTACAGGCACTTACACTCTC
TCACATATTCACACGTATGCACATCTACACCAGGGCTCTGATCTACTCTAGATCGTTTCTGACAGAGAAGCCTT
CTTCCAGGCCACTAAGGTAGCATGTTATCCACTGTGGCACTGCCTAACTCCGTGTATCCTCGGGTGGCCAACCTG
CTATCTGGTGGGTGACTTGGGGACTAGAAAGAATAAAGCCTTTTCTAAATTTGTTATATAGAGGCAACAGTCTGA
ACTCTCCTGGCCAGCTCACGAAAGTTAATTATACATTATTCTACAAATGCATTCTGTTGAGCACTAAATATTTTA
GTTGGTTTTATGTTAACATTGTGTTAGCTTTTTATTTCTGGATAGTAACTGGTCAGGATATATTTTAAATGATATT
TGAAACTAATCTTAGCATTGAAGCCACCAATGTAATTAATGGTGTGCAGTTATTTTAAAACTACAGATCATTTT
ATTATTTTCTTAATTTTGGTAATTATTAAAGTCTATTTCTGAGATACGAGAGGGTAGTCACATTAATAGAAGATT
CATGAGTGAGATATAAGTAGACAATCTTTCTACTGTTGTTGCTCTTTTGGCTTGTCTTGGGTTCTTGAACAGGT
TTTTTGGATATATGCATGTTGTCAATTTTGGACTAGTTCTCATGCTACTGCAAAGATCTATTGCTAGCTAATATAT
GAGTTAAGAAAGAAAATTAGAAAATCTGTTCAATTGAAATCTGTTTACACTTGTGAGAAATAAGCATTCTTTGT
TTAATTAAGGATTGCCAGCTTCAGTTAAGACAAGACCTATCAGTAAATGAATATATGTTTTGATTTAACACATCT
TTACAATTAATTCATAATAGGGACTCAGGCTCAAATAACTGTTCTGTGCTAGATTATAATGAGGACATCAGG
GAGCCTTTTTAAGCTAAAGAGTGATTATCTTTACAGTAGAACTAGAAACAAAACCTAACTTGTGAAGTTGCTA
TTTATTTTTCCCTGAGTGAATATACTGTTATTTGGTCTTTAACAGATATACTGAGGTTGAGTTTCACTTCTT
TAAGTCTCACATTGCTAACATGACATTAGCTGTAAGAAACAAGATAGCTTTACATTTGAATGCCATTTACTGATT
TCTAATGATTCTCTTTTTTTGTAAACAACTGTTTCTTTGATTATGTCAACATGTTTCTGATGTGGCATTTTGT
TTAATCCCAATCGGTTAGGAAAATCTAGTCAGTAAGCGCCATGAGTATCTTCCATAACTAAATGGGTTTCTA
ATTTAATTTGAAGGGAATAAAATTTGTGTAAGAAAAAGCTGTTTAAACATTAATAAACTATATTTCTTCTACAC
ATTGAACTGTATCATTTTCATATCCACTTCCCCACCACTGAAATATCTTATTTTCACAATATTTTAACTGATTTT
AATCCAAAATAATTTATAAGACAGTATGTATAGTAATAGTAGCTTGAGTGAATATGCAAAGTTTAAATTTTAT
ATATGTCATACTATATTTTAAATAGTTAAAAAAGACAAAAGAAGGGAGAGCCATCTATGATATAGATGGTACCAT
TTCAGTTCAAAGTTGTAATAACCTTTGGAGTGTTACAGTTTGGTTGTCAAATGGTTTTCAGAAATGTATAATTGATT
TTTTTAAATGTTGCATTGTTTGAATCTAAAGTACAGCACTATAACATGCTTTAGCTTGGGGGGTGGGTGTGGGG
TGGGGACTTGCATTATTCTCTAAAATGTTGACTAATCCAGAAAGCCTGATGCAACATAATCTGGAAAACCTGCTT
TGGTACATTTGTAGAAATCCATAGAAATACCATATCCAGCCTCAAAGCATTAACTCTCNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNGCCAGAAAAAGCATCACCTTGAGTGGTCCTGTGATGGTTGTTGAATGTGTCTCATTAGA
TGCTTTGAAATGAGGCTTAAATAATTTTTCTGGGCAATATAGAGTTTCTTTTTTTGCTTAGAATGTCAATAAT
ACATGTGAACACGTTTAAATGCAGGGCTTTTTATTCTCTCCAAAATGTCAACAGTATTTTTCAGAAATAAGACTATG
AAATATATTGCTGTAGTGGAAAATTCTGGTCCTTTGTCTTTAATGTCTTTTTGAGTGGATAAAGAAAATTACCCC
GGTTTGTAGTTTCTATATTTCTGTGAATCTTTGACCTTGCAATGGGTTGCAATAAAAGAGAAAC

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FIGURE 1738.

GIINDRCVEVIAKEGQNLKELYLVSKITDYALIAIGRYSMTIETVDVGWCKEITDQGATLIAQSSKSLRYLGLM
RCDKVNEVTVEQLVQQYPHITFSTVLQDCKRTLERAYQMGWTPNMSAASS

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FIGURE 1739A

TTAGAGGTCCTTTCTGCTTTTATAACATTAGGTTCTTCTTGTGAGGCCCTTAAGCATTGCTAAACAGGTTCAAGTA
AGTTTAGTAAAGTTTCATTACTGCCATTGATTCAATTATCAAACCTGCTTTTGTACATATAAAGAATTCTTCAGAT
GCATGGTTTTCTATTAAACAAGATCCAATGCCTTCCTTTTATTTCCCTTCAGTTCAACATCTAATATATAAAGATT
GCTCTGACTACTACGCAATAGGCCAAAAGAAGCAGTGAGACCTACAGAGTTACACCTGATCCCAAAAATAGTAGCT
TTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTGGACAGTGCTGCAGGCACGTCTCGATGGGAGCACCA
ACTTCACCAGAACATGGCAAGACTACAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATA
AAATTCATCTTCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGCAACTAT
ATGCCTTGTATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATAATGGCA
CAGCTGGAGATGCATTACGTTTCAACAAACATTACAAACCAGCATCTGAAGTTTTTACCACCTCCAGATAAAGACA
ATGATCGATATCCTTCTGGGAACGTGTGGGCTGTACTACAGTTTACAGGCTGGTGGTTTTGATGCATGTCTTCTGCAA
ACTTAAATGGCAAATATTATCACCAAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTG
TAAGTGAGGCACACCTGGTGGCTACAAGTCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGCACTTTA
AGCCATAAATCACTCTGTTTCATTCCCTCCAGGTATTCTGTTATCTAATAGGGCAATTAATCCCTTCAGCACTTTAGA
ATATGCCTTGTTCATATTTTTTCATAGCTAAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTG
AAATAAAGCTGAAAAACAATGCATTTTTAAAGGAGTCTTTGTTGTTATGCTGTTATCCAATGAACACTTGCAAGC
AATTAGCAATATTGAGAATTATACATTAGATTACAATCTTTTAATTTCTATTGAACTTTTTCTATTGCTTGT
ATTACTTGCTGTATTTAAAAAATAATTGTTGGCTGGGTGTGGTAGCTCACGCCTGTAATCCAGCACTTTGGAAAT
GTCAAGGCAGGCAGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAAACATGTGAACGCTGTCTCTATT
AAAAATACAAAAATTAGCCGGGCATGGTGGTACATGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACCTGAGAGGAAGAGGTTGCAGTGAGCCAAGACTGAGCCACTGCACTCCAGCATGGGTGACAGAGAA
AACTCTGTCTCAAACAAAAAATAATAAATTTATTTCAGTAGGCTGGATTCTACACAAAGTAATCTGTATTGTTGGG
CCATGATTTAAGCACATCTGAAGGTATATCACTCTTTTCAGGCTATAATTATTTGGGTAATCTTCATTCTGAGAC
AACTTAATCTATATCATTACTTTGCAACAGAACAACCTACAGCATTTTGGTTCCAGACTAAGGGAACATAAT
ATCTATATAATTAACTTGTTCATTTATCATTTCATGAATATAAAATACTTGTCAATTTAAACCGTTTAAAAATGT
GGTAGCATAATGTCACCCCAAAAAGCATTAGAAAGCAATGTAACCTGTGAAGACCAGGGTTTAAAGGTAATTCAT
TTATAGTTTATAACTCCTTAGATGTTTGTGTTGAAAACCTGCTTAAACATGAAAATTATCTTCTCTGCTCTGTG
TGAACAATAGCTTTTAAATTTAAGATTGCTCACTACTGTACTAGACTACTGGTAGGTTTTTTTTGGGGGGGGTGGGT
AGGGATATGTGGGTAATGAAGCATTACTTACAGGCTATCATACTCTGAGGCCAATTTTATCTCAAAGCAATAA
TATCATTAAGTGATTCACTTCATAGAAGGCTAAGTTTCTCTAGGACAGATAGAAAACATGAATTTGAAATATAT
AGAACAGTAGTTAAATACTATATATTTCAACCTGGCTGGTAGATTGCTTATTTTACTATCAGAACTAAAAGA
TAGATTTTTACCCAAACAGAAGTATCTGTAATTTTATAATTCAATCTGGAATGCTATATATAATATTTAA
AAGACTTTTTAAATGTGTTTAAATTTTCATCATCGTAAAAAGGGATCATCTCAGAGAGAACAGCAGTATTCTGCGTA
TTTTTAAAAATGCTCTAGAGTAACATTTGAAGTAATTCAGTGTAGTGATGCCAGTCTTAGAAATAATTTTTTTA
ATTTCTGGTGCTGTGTTCTAATACACTAACCAAGTTTTCAAAATATATTTACAAAGATGCATCTTTACCCATTAT
TTTAAATGATTAAGGAGGATAGTTGCTTCAGGTAACAAGCTAATTTTTCAAATATTAGGCCCTTACAGAACATAT
TTAGTCAAAAAGTAAGATATTCCTTTAAATATATAACCCAAAGCTTTCAGTTAAACATGATATATCACAAATAC
TATTAATGTTAAAGAGAAATGCAATAGCATTAAATGATGACCAAAATGTAAATATTGTAGATTTCAAAAGC
TGTGCTCTATTAGGTGGGATACCAATGTAAATGATGTAACGTGACGTTGTTTTTACTTTTTTACTTTTTAAAAA
AGACTAAAAACGTTTTGATATTATACAATGTATTGTTTCAGATAAGGTCATTGTCATTTAGTATATATAATTAA
TATATGTACAAGTTAAGTAAATTCCTGTGAGTAAAAATGGACTTATCACAAAACATAGTTCTAAAGAAAGGTAT
ATGCTCATATACACGGTGTCCATTAAATTAATGGGAACAGGTATAACTTCAGGAGAATTTGGCAAATAATTCAT
TAATCCATGTAAATATTCAAAGCTTGTTCTATCCACATTATTTCAAGGGATCACTTTATTTTTTATTATACCTT
CACAGCACTTTTCTAGTAAATCTGTAAACACAGAAATTCATTTTGAATCATTTCATGTTACCAATAATCTAG
ACTTTTATAACATTAAACATGTTGATGGAAATAGATTACATCTGCTAGAACCTTTGCCTTAACCTATTACCAAT
ATATGCTAATATTATAAATATGGATTGACTGTTTACAACATTAGAATCTTGTCTTGGTTCCATTTTGATGGCT
AATATTTGTTATCTTAATTAAGACTATTTCTGAGGTCATGATTACTTGAAAATATTGACTAAAACCTGGGTCCCTTA
GAAATTCAGGTGGAGCTGATTTACCTATGACTGAGGGGAAAAAATAATCAATTTTACTGATAATAGTAATGCT
CCAAATGAATTAATGACACATCTGTTCAATAAATAAAGAGCTTAAATATACAAAACATAAGAAATCTGGGCAACA

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FIGURE 1739B

AAACTTGTGGTCTTTACTTTTGAATAGCTACCCAAGAAAAGGTTTTAAAGGTAAAAGTTATGAGTAATGTCATCA
CAATAAGCTCTTGTTTAAAAATCTTTCTTTTATGTATAATTAGGTTTATGTTTCATGTCTTTTTAAACCTTAT
AAAAGATTTAATTATCACATCTATTCTTCAATGTGGAAATATTAAATATTGTTGGTTGTAAAAATAATTTTATGT
ACTTACTTGTGTCTGAAAAGTTGTAAATGCTTACCTCAGCTATACAATATCTGTGACTCTGAAGACTTTAATGA
GTACTATTTCAATTAACAAGAAGTCAGAGGCAAATAGAGGAACACCATTATCTTACTTCCCTCTAGAATACTGTTG
AAACATTTGAAATACAAAAGTTTCAGTTTCATTTTGTGGCATTCAACTTCCTCTCCTCTTTTTCCGTTATTAGTG
TTGCTGCTCTGGTTAGCC

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FIGURE 1740

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATTGAAGGTATTATTTATTTGCAGCTCATCTTAAGTGACA
AAATTCATACAGAAGACTATAACAGAAATCATATTTAATATATTAAAATTAATACTTCAAATATCTTTCACATT
AAGATGATTATCTATTGTGTAAATCTTTCCTAGGTATGTGTGTCTGTTTCTTGATGTGTAAACCAAACTCTGAA
ATATTCTCTTGATCTAACTTTGACTTTTTAAAACTGACATTGTATTGAATTTACATAATTCTCAATCAGAAAAAA
AATTACTGTCAGACTGCAATGCAAGTCTGCCCAATGAAGGCAGGAGGAGGGATGGCTGGAAGTGTCTCAGGGCA
CTCTGAAAGTTTAGCAAGCTTATCAAGGAGTCTCAAACATAAGCTGGCCAAAACTTCAGCATAAAAACTATCC
TGTCTGTGTATTATATATATTTATTACCAAATTTAATAACAAAAACCCTTTTGAACCAGGTAATTTTATCTAG
TGTGAAAAGAAATTAATCAGATGGTCATATACTGGCTAGTGTCTCTCTAAAAGTAGACATTAAAAATTTTCATAAT
TGGAGGGAATCTTTGGAGATTAGTGGCATCTAATCTTGGGGCCTCAGACACCCAAAATCTATATATTGACCAGTG
GAAGTTGATGATTTGTTATCAAATTTCAAAGCACCTAATGGAAACCCCACTTCATCTCTGTGAAGATTTTCAGTT
CCTTTACAGTTATTTGAAATTTATTTCAATCTGTGGAGCCACTTCAGAACTCCAATGGGCCTTTGCAATATTAA
AATGTGGAGAATGCATTAATCATTATTTAATCAATGAGTTTAAAAAATAGACAAAAGCTTCTGAAACATGGGACT
GAAGTAGGCGGAGCATTATAAAAGCCTAAGGTAATTTGGTAGTGAAGAGTTGGAAAACTTACTTAGTCTAATATT
GTAATTTACAGATAAGGAACTGAGAAGATAAATAATTTATTCAATATCACTCGATGGTTCATTAGTAGAAGAGC
CAGCATTATGATGTACTCATTGTACTCTAGGAGTTGTTAAAAGGCACTTAATATCTTCTTTTCTGGGTGTTA
GCATTTTTCAATTTTTTAAATCATGCTATTTAGTGTCTTAACTTTGAAACCCAAATGGTTCACATTTTGTTTTT
GGATTGCTTTGGGAATGAGTATGTACTGTTAGAGAAGGGCCCAATCCAAACACTAGAAATTTAATAATTTCTACT
CCCTCTGCTGGCCAACCTTTCCAGTAAAATGGATTTTAAAAAAGAGAAAAAAAATCTAGCGGTAATTGAAACAA
AAACAAAACCTTTAAAAAGTGTCTTCATTATAAAGAGGTGCCATGCATAAAAGCCTAGGTAGTTTCAAGGTCCAT
TCTTCCATTCTCATGATTTTAGGGTTATCCTCATTAGATCTACTCTAGTTATAATAGTACTTTAAACAGAGCA
CAGAATTAACCATTAGTATGTGAATCTGCAAAAAGAGAAGTTGTTTTAGACTCTTCTACAGTTTAGACTTCAAT
GTGCATACTAAATGCATAACATTCGTATCAAATAATTAACATTTATATACAATTAACAAATAAGGACAAATTTTA
TACAAAACCTTCTACTACTGCTATAATTTTTGAAAACATTTAACCCTAGCAAGAGGTAAGACAGCACTGCCTTT
TTAAAAGACAGGTCATTGAATAGAGAATATAAGATATAACCATAAGTAGGAGTATAAACAATAATTTTTCTTCT
TGTGGAATGTTTTTAAATTTCTTTCTTATATTATTATCTTCTTCTTAGGTTTTTTTAGACAGGTCATTTCTTCT
GAATGATTTTCTTTTCTTTTATTTTTATTTTTGAAGGAGGATTATTACTGGTGGTCTAAAAGAAGTACCTT
CAACTTCTTCATAATGTAGCCAAAGCGGAAATGGAATATTTAATAATTC

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FIGURE 1741

MKAGGGMAGSVSGHSESLASLSRSPQTKAGQKLQHKNPVCVLYIFITKFNKQKPLLNOVILSSVKRN

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FIGURE 1742

GCTGTGAGTTGGCGTGCTAGTGGGATGGCAGATGAGGAAGAAGACCCACGTTTGAGGAAGAAAATGAAGAAATT
GGAGGAGGTGCAGAAGGTGGACAGGGTAAAAGAAAGAGACTTTTTTCTAAAGAATTGCGATGTATGATGTATGGC
TTTGGGGATGACCAGAATCCTTATACTGAGTCAGTGGATATTCTTGAAGATCTTGTCATAGAGTTTATCACTGAA
ATGACTCACAAGGCAATGTCAATTGGAAGACAAGGTCGAGTACAAGTTGAAGATATCGTCTTCTTGATTGAAAG
GACCCAAGGAAGTTTGCCAGGGTTAAAGACTTGCTTACTATGAATGAAGAATTGAAACGAGCTAGAAAAGCATT
GATGAAGCAAATTATGGATCTTGACACTTTTTGTAGTTTCCGAAAATTACCATCTGGGGAAACCATATATAATAA
TTGTATATTTTCTAAAGTAAGATTCTGATATCTAGCCGAGATCGCACCCTGCACTCCAGCCTGGGCGACAGAGC
GAGACTCCGTCTCAAAAAAAAAAAGAAAGCAAGTTTACATGAATAATGCTGTGTTGGAAGGCTTTTTGATTTA
AAATCTTTTCGGATTTATAACATCCTGTAAAGTTTTAGGAGAACCCGTTTCCCAGAGCAGATTCAAGCTTCTAA
AAATAAATGCTTTCAGTAGCAGGAATGGCATTGTTTTAAAAGCTGATGGCAGGGTAAGCATTGGGGTTAGTGTTT
TATTAACATATTTGTAAGTACTTGTTTATTGTGGAATGTGTCCTTGACTAAAACCATACGTGGCTATGGAACC
ATGTTTGTAGTTCTGAATACACAGGTTTTGTGTGTTTACTCTATGTATTAAATTATTATTGCCCTTAGTTTTAA
AGTAAGGATTACAATTGGATTTAAGTAGATCACTGAATGTTATTGTTTATGAACTTAACTTTTGTATGCTGCT
TATAAACATGATCTATAAATCAGTGCTTGGGAAAATTTACTTTCTTAATCTACTGATACAGGAATAAAATATGA
ACAATTAAACAGATAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1743

MADEEDPTFEEENEEIGGGAEGGQGKRKRLFSKELRCMMYGFDDQNPYTESVDILEDLVIEFITEMTHKAMSI
GRQGRVQVEDIVFLIRKDPKRFARVKDLLTMNEELKRARKAFDEANYGS

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FIGURE 1744

GGCACGAGGGGGCGGCGGGTCACGTCGGCCGGGCATGGCTGCATGGAGCCCGGCCGCGGCAGCGCCTCTCCTCCG
CGGGATCCGCGGGGCTTCCACTTCACCATCGGATGTTTGCCACTCAGACTGAGGGGGAGCTCAGAGTGACCCAAAT
TCTCAAAGAAAAGTTTCCACGAGCTACAGCTATAAAAGTCACTGACATTCAGGCACTAAAAGAAGAAATCAAAG
AGATGCATGGATGCGGATATTTACCTCTGTCCCCAAACGCTGACCACGCCCTGGCTGCATAGATGCTGCTGCTT
AAGACCTTGGATGAACITCACTGACATCATTCTTCCCTAAGCAGTCACCAAAAAATTTATATATTTTGCTCATAT
ACATTTCCATATTATAATTATAGAAGATGTATAATCTATTTAGATGTTAATTAAAGGAAACAAACAACCTGAAGCT
TTTGAAGGGCC

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FIGURE 1745

ARGGGGSRP GMAAWSPAAA PLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRATAIKVTDISGTKRRNQR
DAWIADIYLC PQTLTPWLHRCCCLRPWMNFTDIILP

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FIGURE 1746

GTGAGCGGCAACATGCGGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAAG
GATGAAGAGGACGAGGTCAATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAAGATTCATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTTCTATGAGAAGGCAATTCTCAAGTTCACTACTCAGTGCAGGAGGAG
AGCGACACTTGTCTGGGAGGCAATGGTCTTTTGATGACGTACCAATGACGCCCTTGCGAACTGTGATGTTAATT
CCAGGCGACAAGATGAACGAAATCATGGATAAACTGAAAGAATATCTATCTGTCTAACCCATTTCCAATGGACAG
TGATGGGCTTGTTTTTGTAAAATTACCAGAAAACTCAGTGGAGATTTACTGAAAACTCAGACTTTATTCAGATT
AAGTTCCTCTACAAAAAGTAGGGTTCTGTCCCATGTGTCTCTGACACATTTACAAAATACCAGTTTTTTAAAATT
TTGGTCAAATTATGAGTGGTTGATTTAAAACTTTTCCAAGAAGAAGAAAAGCATGGAGTCGTAATTTAAAGAAC
TCAATAAAAACTTCTATTTTTTATTTTTAAAATAATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1747

MASRSKRRAVESGVPQPPDPPVQRDEEEEEEKEVENEDDDDDSDKEKDEEDEVIDEEVNIEFEAYSLSNDYDGIK
KLLQQLFLKAPVNTAELTDLLIQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISKT
FVEAGKNNSKKKPSNKKKAALMFANAEFFFYEEQGKPEVLGGPDTRRGLEPVPIQHNGWSVPPVLE

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FIGURE 1748

ATGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTCATCACTCATGCACCC
CCAGGGGAATTTAATGAAGTATTCAATGACGTTTCGGCTACTACTTAATAATGACAATCTCCTCAGGGAAGGGGCA
GCACATGCATTTGCCCAGTATAACATGGATCAGTTTCAGCCTGTGAAGATAGAAGGATATGAAGATCAGGTCTTA
ATTACAGAGCACGGTGACCTGGGTAATAGCAGATTTTATAGATCCAAGAAACAAAATTTCTTTAAATTTGACCAC
TTACGGAAAGAAGCAAGTGACCCCGAGCCAGAAGAAGCAGATGGAGGTCTGAAGTCTTGGAGAGAATCCTGTGAC
AGTGCTTTAAGAGCCTATGTGAAAGACCATTATTCCAACGGCTTCTGTACTGTTTATGCTAAAACCTATCGATGGG
CAACAGACTATTATTGCATGTATTGAAAGCCACCAGTTTCAGCCTAAAACTTCTGGAATGGTCGTTGGAGATCA
GAGTGGAAAGTTCACCATCACACCACCTACAGCCCAGGTGGTTGGCGTGCTTAAGATTACAGTTTCACTATTATGAA
GATGGCAATGTTAGTTGGTTAGTCATAAAGATGTACAGGATTCTAACTGTTTCGAATGAAGCCCAAACCTGCC
AAGGAGTTTTATTTAAATCATAGAGAATGCAGAAAATGAGTATCAGACAGCAATTAGTGA AAACTATCAAACAATG
TCAGATACCACATTCAAGGCCTTGCGCCGCCAGCTTCCAGTTACCCGCACCAAAAATCGACTGGAACAAGATACTC
AGCTACAAGATTGGCAAAGAAATGCAGAATGCTTAAAGGCTGAATGTAGGATTCTTCAGTATGTGGAAGACAAG
GATTC AACGTGTGGTCATATGATAAAATAGTGATTTATAACAAGAGTGATATTTTGCTAGGGCTTTCAAAGTTA
ACCGGTTTTCTAGCCTCATGGAATACTGTTGAACCTATAGCGTTGCTTGTATTCTTTTGTGTTCTCTGCCTTGTA
ATTTCTGTTACTGTATATCTACGTGTAATCTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTAA
TTCTGCCACATTTAATGTTGGTGAGAGAGTGATCTATCCTAATGACATTACTGTTTAAAAAGTTTCTAGCCA
TGAAGCCCTGCTACTGATTTAGACAAGGTATTATGGTCATTACTTTGTACCCCTATCCTTCCAAGCACTTCTGGT
ACTTCAGTCGTTTTTACTGATCCACCAACACCTAAAGAGGCTATGCTACAGTCTCTAGCTAAATGGAAGACACAT
TCATCCTTCTCCCTCTGACTGCTTTGATCATCATTTATTGCATCGTCATATCATATTTATCGCATCTCATAACTA
ACTTTCTAAAGTTTGGATTGGGACTTTTCAGGTCCTTTTGGAGGGCAAAGGAAGTTCCAGCTTCTCTGGGGAAC
TTGTTTTTAAATCCAAAGACTTGAACCACATTCCCTGCACATGAACATGTTTGCTTTTATCCCTTCTCTCATTGG
CTCCTTCCCATCTTAGTACCATTGTAGTTATACATCTGCATTTTTTAGAAGCATTTTACCCATTTATTTTTTTAA
ACATTCAAGAAGTCTGACGTACTGTGGATGTAGAGTATAAACTTGAAAAATGCAGATGTTGAAGGAATAATAG
GTATCTTGTGCTTTAATACTTTATGGCAGGATTGTACTATAAGCAAATGAATTAAACAGCTATGTAAATCATAAA
GAAAAACTAAAAATGAACCAAAGTGAAAGGATAACTTCCAGGCAGTATCTTCTATTGTAACCTGTTATTTAAGG
AAATACTAGTGATTTCTTCTAAATAGGATGTAAACTTCTTTCAAATTACTCTCCTCAGTCTGCCTGCCAAGAAC
TCAAGTGTAAGTGTGATAAAAATAACCTTTCCAGGTATATTCCGCAGGTATGTGTGTAATCTCAGAATACACAGG
TGACATAGATATGATATGACAAGTGGTAATGGTGGATTCAATTTACATTGTTTACACTTCTATGACCAGGCCTTAA
GGGAAGGTCAGTTTTTTTTAAAAACCAAGTAGTGTCTTCTACCTATCTCCAGATACATGTCAAAAAGAAAAGGTG
TTGTGCTCCGTTTTGTTTCTGCTCAGTAATATAGTCAAGCAAGTTTGTTCAGGTGACCCATTGAGCTGTGTAT
GCATTTTTGTTTATTTCAATAAAATATATTGTATTATTTGTCCTTCATACTATCCATCCATACCACACTATCTT
CTGTATCAGGTAGTCTAATAGAAATATACCTGTTTTGTTCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1749

MADFDDRVSDEEKVRIA AKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAF AQYNMDQFTPVKIEGYEDQVL
ITEHGDLGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGFCTVYAKTIDG
QQTIIACIESHQFPKNFWNGRWRSEWKFTITPPTAQVVGVLKIQVHYEDGNVQLVSHKDVQDSLTVSNEAQTA
KEFIKIENAENEYQTAI SENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 1750

GCAGTGATATAAATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGT
GAGTGTGTGTGTATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCATAGCCTCATGCTTAGGACTACCCATG
AATGTTGTGGAATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTG
GACCTGGAGACCATCCCCCTTGGAAAGACAACCCAGAGATGTTTCAGCATCCTGTATCTACACGCATCCTGTATCTA
CACGTGTATTTTGTAGCTGTCACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTCACCTTAA

TGGTGAAGTAATTTAAATATAAATCCATTGAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAACT
CATCTGAATCATCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAATGGAGTACAA
GTAGCCTTTGTTTTCTGCATAAATGGACTTGTTGAATGCGAACGAATATATGCAATTCATATACTTTTGGAGAT
GAACGTAGATATGTGTGTGAGCTTTGAGATGGTGTGTCTGGATTAATACTTTGTCTCCCAATATCACAGAAAA
TACATGCCAGTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACC
TGAAAGTTCTACAGTAATTAATATGACGCTAACTCCTGTTGCCCTCACAGAGCATCAGCCTTCTAGAATCGGA
GCTCCGGAGTGTGAAGATTTCAGTATTGATATGATATGTATACCAAACTCCAGCCAATTACTGCCATTTTTTCATA
ATCTGAGTGGCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAA
ATCAGGGAAAAATGAGGAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAA
TATTTATTACATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTTG
GGGACCTTAATATATTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTG
ACTCTTCTGAGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTAAGCCCGTGG
GCAAGCCCTGGCCGAGTGAGCTCCAATGCTAATCATGTCCGATCTCTAGAGCAGTGGGAACTACCCCGCTGC
ACCAAATCAAGTAGCTTCACCTTGTGTATGCAGGCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCT
GGTGGGTTGAAAAACGTTCTTATTTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCGTTCTGAGACCT
CTTGATTCAATCTGTGAAGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACT
TAAATTCTGACCCATAAAGGAAAGTTCTAGAAGCAATATTTTCACTTATTTAACATTCTCCAACAACATCAAGC
ATTGATACACACTGAAGAGTGCCTTTATTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTC
AAATTAGAATGTATAAGGCATATTATAATTTAGTTTCATACTGAAAAAGAAATTAACAGAACATTGTTCCGGTTTCAC
ACGTTCCAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTCTATTTTGTTTTAAATTTGTCAAGGTATTTTT
CTTCCCTTCATGAACCTTAGGTACACATACTTATGTCAATTTATTTATGGTCTTTTATACCTAGTTTGTAATAAT
GTAAAATAGCAAACTAAATGCAAAGAGTTTGCAATTTGAAAATAATAAAGTAGTTACCGTATACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1751

MCVHRCECVCMRACLCAGVCMCIASCLGLPMNVVECYTWRVLVFHQFQDEELHDTVDTLETIPLERQPRDVQHPVS
TRILYLHVYFVAVTLTLIRILQLWTEAFSP

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FIGURE 1752A

CTCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCTGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTT
ATATTCATGACCTACTGGCATTGCTGAACGCATTTACTGTACGGTTCCCAAGGACCTATATGTGGTAGAGTAT
GGTAGCAATATGACAATTGAATGCAAAATCCCAGTAGAAAAACAATTAGACCTGGCTGCCTAATTGTCTATTGG
GAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGCTACAGA
CAGAGGGCCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCAGATGTGAAATTGCAG
GATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCC
CCATACAACAAAATCAACCAAGAATTTGGTTGTGGATCCAGTCACCTCTGAACATGAACATGACATGTCAGGCT
GAGGGCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACC
AATTCGAAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTTC
TACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCACTCCAGAACTACCTCTGGCA
CATCCTCCAAATGAAAGGACTCACTTGGTAATCTGAGGACCATCTTATTATGCCTTGGTGTAGCACTGACATTC
ATCTTCCGTTTAAAGAAAAGGGAGAATGATGGATGTGAAAAATGTGGCATCCAAGATACAAACTCAAAGAAGCAA
AGTGATACACATTTGGAGGAGACGTAATCCAGCATTTGGAATCTGATCTTCAAGCAGGGATTCTCAACCTGTGG
TTTAGGGGTTTCATCGGGGCTGAGCGTGACAAGAGGAAGGAATGGACCCGTGGGATGCAGGCAATGTGGGACTTAA
AAGGCCCAAGCACTGAAAATGGAACCTGGCGAAAGCAGAGGAGGAATGAAGAAAGATGGAGTCAAAACAGGGAG
CCTGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGTGACAGGGAGAAAGGATACTTC
TGAACAAAGGAGCCTCCAAGCAAATCATCCATTGCTCATCTTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGT
CAGTTCCCTGCAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGATGACTGAGAGTCTCAGTGT
TGGAACGGGACAGTATTTATGTATGAGTTTTCTTATTTTATTTGAGTCTGTGAGGTCTTCTGTGATGTGAGTG
TGGTTGTGAATGATTTCTTTTGAAGATATATTGTAGTAGATTACAATTTTGTGCGCAAACATAAAGTGTGCT
TAATGATTTGCTCAGATCTAGTAAAACATGGAGTATTGTAAGGTGCTTGGTCTCCTCTATAACTACAAGTATAC
ATTGGAAGCATAAAGATCAAACCGTTGGTTCATAGGATGTCACCTTTATTTAACCATTAACTACTCTGGTTGAC
CTAATCTTATCTCAGACCTCAAGTGTCTGTGAGTATCTGTTCCATTTAAATATCAGCTTTACAATTATGTGGT
AGCCTACACACATAATCTCATTTTCATCGCTGTAACCACCTGTTGTGATAACCACTATTATTTTACCCATCGTAC
AGCTGAGGAAGCAAACAGATTAAGTAACCTGCCCAAACAGTAAATAGCAGACCTCAGACTGCCACCCACTGTCC
TTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTTCTTTTATTTCAAAAACCATTTATTAAGTGCCCTT
GCAATATCAATCGCTGTGCCAGGGCATTGAATCTACAGATGTGAGGCAAGACAAAGTACCTGTCTCAAGGAGCT
CATAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGTGTATAGCATAAGGATGATGC
GAGGGGAAAACCCGAGCAGTGTGCCAAGAGGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAA
ACATCTTAATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCCGTACTTAAAATAACCTGAAAAATAACACTG
GAATTCCTTTTCTAGCATTATATTTATTCCTGATTTGCCTTTGCCATATAATCTAATGCTTGTATTATAGTGTG
TGGTATTGTTTAAACAGTCTGTCTTTTCTATTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGATTCAA
AATTCAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAGTTTCCTTTCCAG
AAGCAACTGCTACTGCCTTTTCATTATATGTTCTTCTAAAGATAGTCTACATTTGGAAATGTATGTTAAAGCAC
GTATTTTTTAAATTTTTTCTAAATAGTAACACATTGTATGTCTGTGTACTTTGCTATTTTTATTTATTTT
AGTGTCTCTATATAGCAGATGGAATGAATTTGAAGTTCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAG
TTATCTTTCCCATAGCTTTTTCATTATCTTTTCATATGATCCAGTATATGTTAAATATGTCTACATATACATTTAG
ACAACCACCATTTGTTAAGTATTTGCTCTAGGACAGAGTTGGATTTGTTTATGTTTGTCTCAAAGGAGACCCAT
GGGCTCTCCAGGGTGCCTGAGTCAATCTAGTCTTAAAGCAATCTTATTATTAACCTCTGTATGACAGAATCAT
GTCTGGAATTTTGTCTTCTGTCTCAAGTATAAACTTCACCTTTGATGCTGTACTTGCAAAATCACATTTT
CTTTCTGGAATTTCCGGCAGTGTACCTTGACTGTAGCTACCTGTGCCAGAAAAGCCTCATTGTTGTGCTTGA
ACCCTTGAATGCCACCAGCTGTATCATACTACAGCCCTCCTAAGAGGCTTCTGGAGGTTTCGAGATTGAGATG
CCCTGGGAGATCCAGAGTTTCTTTCCCTCTTGCCATATTCTGGTGTCAATGACAAGGAGTACCTTGCTTTG
CCACATGTCAAGGCTGAAGAAACAGTGTCTCCAACAGAGCTCCTGTGTTATCTGTTTGTACATGTGCATTTGTA
CAGTAATTGGTGTGACAGTGTCTTTGTGTGAATTACAGGCAAGAATTGTGGCTGAGCAAGGCACATAGTCTACT
CAGTCTATTCTAAGTCTAATCCTCCTTGTGGTGTGGATTGTAAGGCACCTTATCCCTTTTGTCTCATGTT
TCATCGTAAATGGCATAGGCAGAGATGATACCTAATCTGCATTGATTGTCACCTTTTGTACCTGCATTAATTT
AATAAAATATTCTTATTTATTTTGTACTTGGTACACCAGCATGTCCATTTCTTGTATTATTTGTGTTAATAA

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FIGURE 1752B

AATGTTTCAGTTTAACATCCCAGTGGAGAAAGTTAAAAAA

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FIGURE 1753

LEAPHQPRFCPPAGHSRKMRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYW
EMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA
PYNKINQRILVVDPVISEHELTCAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIF
YCTFRRLDPEENHTAELVIPELPLAHPNERTHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQ
SDTHLEET

[illegible]

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FIGURE 1755

MTDFKLGIVRLGRVAGKTKYTLIDEQDIPLVESYSFEARMEVDADGNGAKIFAYAFDKNRGRGSGRLLHELLWER
HRGGVAPGFQVVHLNAVTVDNRLDNLQLVPWGWRPKAETSSKQREQSLYWLAIQQLPTDPIEEQFPVLNVTRY
NANGDVVEEEENSCTYYECHYPPCTVIEKQLREFNICGRCQVARYCGSQCCQKDWPAHKKHCRERKRPFQHELEP
ER

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FIGURE 1756

ATGAACTAATTTATTTAGGCTTAATCTCTAAAATTTGAGCTGATCTTAACCAATGAAATTTCAAAAACAAAAAC
TGTAATTCAGTCTACAATTGAATGGAATTCAGTGTAGACCAGTACAATGGAATGTACTGGCTGAGATGGGAGGGT
CCCTTGAGCCAGGAGTTGGAGGCTGTAGTGAGCTGTGATGGTGTCTGTGAATAGTGACGGCACTCAAGCCTAGG
TGACATAGCAAGATGCCATCTCAAAGAAATATAGATATATAACATAAAATAAATAACTTTATACATTTCTGGAG
GAAAAGTACTCTGTAAATTCAAGAGATCTGAATCAAATTACTCAACCTTTTGAATTTGATCCTCTACTGTAATA
CTCATATGCTAGATTACTGAATTTTCAGAGTGAAAAAAATGACAGGGTAATATATAGGCCATATTATAGTGAA
GATCATAAGTATAAAATGTCCTCGTTTAATCTTTCCATATTGAGGACAGCCTCTGCATATAAAAAATGTTTATTGGG
AGAAAAATTATTTTTAAACTAAATTTTTATAGTAGTCTCCATTACTGGCAATTAAGGAGCAACCCACAAAATG
TCATTATGTGGTTCTTTGATTAGGCATAAAAAGTATTGCAACAGCTTTTCTATTCTTTGGAATATGAATCTTT
TTAATGTCTAAAGTTAACCTGCAACATTTTCTAGTAGGACAAGTCAATGTAAATTAGGTAATTTTTGCTGTTTT
ATACCTTCTGTTGCAATTTGTTCAAATGAAAACATTTTTTAAACATGATTGAATTTTTACTTCTCAGATAATTG
GTTTGAGTGTGGAATTTCTTTTTAACACTTTGATATGTAAGTTAGTGTAAATTAATACTTTTATAACACTACTA
GGCTTTATATTTTTATGGAATGTTTTAAATTTGAAATTTTTGAAGTGTAAATTTAGCAGTACTTTATCATTATG
TGCCAATACTGACAAGAAAAACAATTTTTATGTATTTAATATACTATGCTATTCAATAAATTCTATTTTTAAAT

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FIGURE 1757

MVFNKFYFK

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FIGURE 1758

TTTTTTTCATTAAAAAATAGTGCTCTTTATTATAAATTACTGAAATGTTTCTTTCTGAATATAAATATAAATA
TGTCAGAAAGTTTGACTTGGATTGGGATTTTGTTGAGTTCTTCAAGCATCTCCTAATAGCCTCAAGGGCCTGAGTA
GGGGGGAGGAGAGAGGACTGGAGGTGGAATCTTTATAAAAGACAGAGTGATTGAGGCAGATTGTAAACATTATTA
AAAAACAAGAAACAAACAAAAAATAGAGAAAAAACCACCCCAACACACAACCTGCCCTGTCCAGCCCAATACCT
GACACAGAATACTTTGTGTTTGTTTAGTTGCCCCCCCCACATAA

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FIGURE 1759

AAAAAAAAAAAAAACC GGCTCGCGGCGCGTGAGGCTGCTCCAGCCGCGCGGAGTCAGACTCGGGTGGGG
TCCGCGCGGCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCGCGCGCGCTTTGCCGCGCGCAGCCCGGGGCGAGGGCGGCGGGGACCGCGGCTTGGGAGA
CCGGCCGCGGCCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCTTGAGCGCGCGGCCAAGCGGCGCGCA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCGCGCTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCCGCGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCGGAGGCGCGGCGCGCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCGGAGCACCGTCAAGCCGTCTTGAGTCCATCAGGACGGCTGGCACCTTGTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGCTGGGCTGACGCTGCTGGCTGTTGGGCTCTACTCAGC
CAAGAATGCCACGCTTGTGCGCGCGCTTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGAGGCGCTGCGGCACCCCATCCAGGTACGCCGCGGCTCCTCAGTCGACCCAGGACGC
GCTGGAGGGTGTGTGCTCAGTCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCAGCAGCTGTACAGGAACATCCTGATGTACGGGCCACCGGCACCGGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCATGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATACCAGCGCGCGGCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCTGTACCG
CACGGGCCAGCACAGCAACAAGTTCATGCTGGTCTTGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCCTGAAGCTGGCCAGTTTACTACGGGAGGAA
GTGCTCGGAGGTGCTCGGCTGACGGAGGGCATGTCGGGCGGGGAGATCGCTCAGCTGGCCGTGCTCTGGCAGGC
CACGGCGTATGCCTCCGAGGACGGGGTCTGACCGAGGCCATGATGGACACCCGCTGCAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCTGGGCGTGGGACGAGCCTTCCCCATCCTAGTTCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCACCCCTGCCTTGCCGGCCCTGCACATTIAG
GATATGCTCCTGGGTGGGGACTGGGCTGTGCCCAGGGCCTCTGTCCCCAGGATGTCTTGTGGTGCGGGTCGGCC
GTTCTGCCCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGCAGGCCTCCTTCTGCCCCCTCGAGAC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCACAGGGGGAGGGTGAGGCTTGCACCCAGCCCTGCCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCCGGGGCAGCAGGAGCCAGGCAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCTGCTTCCCCCTGT
GGCCGCGCATGCCCCGATCTTTACACACTGGTGACCCTGAGAGAGGAGGAGGAGGGAACCTGGCGGGGGTGTCT
GAGGCCGCACTGTGAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCCACAG
GTGCCTCATT

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FIGURE 1760

MSWLFGINKGPKGEGAGPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAAKAARELEHSRYAKDAL
NLAQMQEQTLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEESVQKQEQAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLES
IRTAGTLFGEFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAF LRKRATEKISED LRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQKMCWLKAEGPGRGDEPSPS

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FIGURE 1761

GGCACAGGGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGGCGGGCGGGCGGGCCTGGCCCCGGGA
TGGCTATGTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGCGACAGCG
GCCTGGAGGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGCCCCGTGGCCATCGGCAGCTGCGGCC
ACACGTTCTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCTGCCCT
TCGACCCCCAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCCTACAAAGCGCCCTGTGAGGCT
GCAACAAAAAGGTGACCCTGGCAAGATGAGAGTGCACATTTTCGTCTGCTGAAGGTCCAGGAGCAGATGGCCA
ACTGCCCCAAGTTCGTCCCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCG
CCTGCCCCGTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCG
ACCCCAACCGCTGGTGTGGCCCATCTGCTCGGCAATGCCCTGGGGGGACCCAGCTACAAGAGCGCCAACCTTC
TGCAGCACCTGCTTCACCGACACAAGTTCTCTCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCT
TCCAGGCTGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAGG
GATGTCCCCGCTCCTGTGTGCACTGGCACCTGCTCGGGAGCGCACCTCACCGGACTGAGCTCACAGGAGGAGC
CTGCACCCGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAG
CAGGGCCGCTGGTCCCACCGCGTCGCTGGGTTCTTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGG
GCTGGACGCTGGGACCTGGAGCTGCCGCCGTCTCTTCAAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGAC
GCGCGAGTCGCGCTCCGCAGTCGAGCCGGGAGGAACCCAGGCTGCTGCCCTGCCAGCCCGACCCCTGCCCGGCC
CCGCTTCCACCTTGGCATTGTTGTAAGTGGCTTTTGTGATACTTAGGAACCCCTGGCATCTTTTCTATATTATCCAG
TGTGATAATCTTTTACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACT
AGGAATAATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGG
ATTGGGGCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCT
GCCCTGGCCACCCACTGTGTGTCTGGGTCTTGAGGTTTGACGTTTCTCTTTGATGACCAGGAAGAAATCCCAG
CACCCAGCCACAGGCTGTGGCTGCTCCAGCAGAGGTGGGGCCGGCAGAGAAGGGGCCTCTCCACCCAGAGTC
CTGGCCTTGGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCAGTGGTGGCA
GAGCTTGGGGGCCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATTCTTTTCTGTCTTGGCATT
AATTATTGCTGTCTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1762

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVETSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 1763A

CGAGCCTAGGGAGGCGAGGTTCCCGCACCGGATAGGAACATTCTGTTGTTTTCTCTGCCATCTAGTGGCAAAAG
AAAGTAATTTTCTGGTTTTTTGAATGGATAGCCATACCTTAAAAAGCATCCAGATTGCGCAGTAGTGCTAGCGG
CTTCGCGGTTTCAGTCTCTTAAGTACAGCCGCGGACTGGTGCTGAGCTGCTAGGAAGCCCCGTGCGCGAGCTTG
TTGGAGCTTGAACCCACTGTCACCCCTCCGACTCACCAGCAAAAAAAAAAATGTTGAAGCAGATCGCCAGGAA
AGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAAGCTCTTGAAACAGTATTTGGCAAATATGGACGAA
TAGTGGAAAGTACTCTTGATAAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCC
CAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAG
CCACCAAACCATCATTGAAAGAGGTAGACATGGACCGCCCCACCTCCAAGAAGTAGAGGTCTCCAAGAGGTT
TTGGAGCTGGAAGAGGAGGAAGTGGAGGAACAGGGGACCTCCTTCACGAGGAGGACACATGGATGATGGTGGAT
ATTCCATGAATTTTAAACATGAGTTCTTCCAGGGGACCACTCCAGTAAGAAAGAGGACCACCAAGAAGTGGGG
GTCCTTCTCCTAAGAGATCTGCACCTTCAGGACTAGTTTCGACGAGCAGTGGAAATGGGAGGAAGAGCTCCTCTAT
CACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTCCCTCTCGTAGAGATGTTTATTTGTCCC
CAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCAAGTTCTCGTGATACAAGAGATT
ATGCACCACCACCACGAGATTATACTTACCCTGATTATGGTCATTCCAGTTCAGTGATGACTATCCATCAAGAG
GCTATGGCGATAGAGATGGATATGGTCGTGATCGTGACTATTCAGATCATCCAAGTGGAGGTCTCTACAGAGATT
CATATGAGAGTTATGGTAACTCACGTAGTGCTCCACTTACAGAGGGCCCCGCCATCTTATGGTGGAAAGCAGTC
GCTATGATGATTATAGCAGCTCACGTGATGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATC
TCTACTCAAGTTGTGACAGGGTTGGCAGACAAGAAAGAGGGCTTCCCCCTTCTGTAGAAAGGGGTACCCTTCTT
CACGTGATTCCTACAGCAGTTCAAGCCGCGGAGCACCAGAAGGTGCTGGCCCTGGAGGAAGCCGATCTGATAGAG
GGGGAGGCAGAAGCAGATAGTAAACAAACAAACCTTTGGACCAAAATCCAGTTCAAAGAAACAAAAAAGA
GTGGAAACTATTCTATCACTACCCAAAGGACTACTAAAGGAAAAAATTGTGTACCTTTTTTAAATTCCTGT
TAAGTCCCTTCCGTAATTTTTATGTTCTTGTGAGGAAAAAAGTAAACATGTTTAAATTTTATTGACTTTATGAC
ATTGCTTTTTCAACAAGCAAAATGTTAAATGTGTTAAGCCTTGTAGTACTAGTGTGTAACCTTTCCAAGTAAAGGTG
TCCCTATCTCAACACTTCCCTATCTGGTTTTTCCAGTAATGAGGCAAGCAATTCTAAGATCTTCCACAAACATC
TAGCCATCTAAAATGGAGAGATGAATCATTCTGCCTATACAAACAGCTAGCTATTAGAGGGTGGTTGGAGTATG
CTACTCATAAGATTTTCCAGGTGTTTTCTAAGTAAATCTCACTGTTCTCAGTATGCAAAACCTGAAATCAGATGC
CTATGTAAGGAAAGTGCTATTCAACCCAGTAAACCCAAAAAAGCAAAATGGATAATGCTGGCCATTTTGCCTTTCT
GACATTTCTTGGGAATCTGCAAGAACCTCCCTTTCCCTCCCAATAAGACCATTTAAGTGTGTGCTAAACA
ACTACGGAATACTAAATAAAAGTTTGGCCAAACCAACCATGAAGCTGCAAGGTGCTTGCTCTTACTCTTTCA
AATTTTTGCAACTCTAATGTCTCACTTTTTAAAGGAACAGCTTGATTGCAAGGAGAAAAATAGATAAGCAATGAAT
TTATCTCCAACCTTCTAAGGCTTATGACTTCTAAAAAGTGAATCTATCAGCATTCCACATCAGATTTAAAGCAT
CAAATGCCTGTGAAACAGCAAAGATGGTTGAAGATTGTGCTCATTATGTTTGTGGAGTGCTGATTGATTACAGT
AGATAACGCTGGCAGTAAGAGAAATCAAATGCTAAGAGTTGTTGAAGCAGAAGGCGGCTGATTGTTGGTAAGTCA
GTGCAGTTGCATAAGCAGTGCTGTCAGAAATGGTTTGGTGCAGGCAATAGATTTTGCCTTCAAGGGTTCTGTGG
ATCTCAGGAAGGCATCAGTGTGATTAACTCATACTAGGGAGTGAGTGGTAGTTACTTAAGTAATTGACCAA
ATGGAAAAGGGGAAGTAATTAAGGAAATTGGTAAGTGGAGGTAGTCAGGAGGTTCTCGTGGTCTTTACACAGAT
TTTACAGCTTTGGGTTTTCAATTTGTTTAGCTAAAGTCATGGGGACAACTCTTCAATTTAGAACTTAAGATGAATT
ATAAAAATGATGGATATAAGTGGTAGCTCTATCTGGTGAAGTGCTTGTGCTAGTAAAGTAAACATTTTTTGTGGT
GGCTTATCCACAAACAGTTTTAGTTGTAGAATAAACTTATGAGTGACATCTGGAAAGTAACAACCATGCTAAGAT
GGCAAAACACACTGGAAACAATTGGGCCACTTGGCTTTCTTTTGTGCTATTGTTTTATAAGCCTGCTTTACCTCCC
CGTCTTGGAACAAGTTTTAGTTTTATGCTTTGGAGACTAGAGCCAATAGTGTAAATGTTCTCAAAGGAAACAGAC
TTGAGTTGTTGGATTAGAGGAACCTCAACTTCAATTTTTTTTGTGTAATTATGGCACTGTCATGTTTTAA
CATTTGCAACTAGGGATAGTAAGTACAACATTTTTAACTCTCATTGGCAGACTACTACTAATCACAGACCACAA
GGGTAATGACCAAATTTATGTGGTTGTACACTTCCATAGTTGTCTTAGCCGAATCCTTCCATATTCTTATGATT
ACTTGGGTTAAAGCTTCTGTGAGGACCTTTTGGCTCTTAAGATATCTAAATATTTAAATATTTAGATATCTTA
AATATAGGATATAGAGTTTGTACCAATATGAATGAATATTGTTCAAAGCAAGGAGTATGTTAAATGACCAGAC
ACCTGTTTGATAAATAGTTTACTGAACTAGCAGACGTGTGAAAAAGAATCAGATCTTGATTCTCTGGGTTTAT
ACTGGTTGTAAACAGAATGATATTAGAAAATGTTTCTTGTGTTAAGTGGTAGTTGAACATAGAAGTTGGGTAT

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FIGURE 1763B

TATAGATCACTTTTCACTTTTGGGAATGTTTTGTATTGAACTTAATACAACTTTAACATGGCAAAAAAAAAAAA
AAA

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FIGURE 1764

MVEADRP GKLF IGGLNTETNEKALETVFGKYGRIVEVLLIKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFERGRHGPPPPPSRGPPRGFGAGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPSGGPSPKRSAP SGLVRSSSGMGGRAPLSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYGDRDGYGRDRDYSDHPSGGSYRDSYESYGNRSAPLTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDYSSSRSDLYSSCDRVGRQERGLPPSVERGYPSSRDSYSSSSRGAPRGAG
PGGSRSDRGGGRSRY

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FIGURE 1765

TCCCAAAGTGCAGGGATTACAGGTGTGAGTGAGCCACCGCGGCCGCTCTATCATTTTTCTGACTCAGCAGCTCC
ACCAAAATTGACATCCTAGCAAACACTGTGAAGGAATTAACCTAAGTGCTTCCAGAGCATCTCATGTAACCTCTA
TGGAGTAAGTCACTTTTTCTGTAAACATGTGGCTTTTGACCTTGATGAAGACTTTGACTTCTCATCCCTGTCTACA
TGGAGGAAGATGATTCAGTGGTGGGGAAAATGAACCTCGGTAACATTTCCTCAATGTCCTTCAAGAGGGAAACAAGT
TCAGTGTATCATCGTGGCATTCTGTAGTTTTTTTTTTTTTAAATCACTTTTTTAGATACAACCTTTATTTTTTTA
TACCTACATAGCACATGACTGGGGGATAAAGCATGTATAAGTTGGGAGAGGGTAAAGAATGTGTGACTATGTAT
ACAGAAAATAGACTAAAATGTGCAGCAAAATGATATATACTGTAATCTGGTTTTTGAAGTATCTACTATTCTGGA
ATATTGTTAAACAACCTTTTTGCTTTTGAATAAAGGTGCCTTGATTGAGTTGCGTGACTTAGAACATTTCATCC
TATTTTATTGTGATTTTAAATGTCTTCTGACCCCAAACCTGTGTTTTTGGTTGCAGTCTGGCGGCTGCAGGCATAG
CGTCGGTTTTGTCCAATAACAGAGACCAAAGAGTTAATCAGATATGGTTCAGCTGCTACAATTGTATGATTCAA
AGGCAATTTAATCACCCCAAATTTCCATGGCCCCACAGTCAAGACCTGCCATTTCGTTTTCTTTCAGGTTGGA
GTAAATTTGCACCTTGAATCATGTGGGTCATTGGGGACCTTGTTCTTTTCTATTTTGCTTTATTAATAAAGGAA
CTGTAGAAACCTC

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FIGURE 1766

MIQRQFNHPKEFWPPQSRPAIRFLLQVGVNLHFESCGSFGDLVLFYFALLIKELVE

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FIGURE 1767

GGCACGAGGGGCACCTTGGCGAGGTGGCGCTGCCGGAGGCTGAGGGCTATCTACACCATCATGCGCTGGTTCCGG
AGACACAAGGTGCGGGCTCACCTGGCTGAGCTGCAGCGGCGATTCCAGGCTGCAAGGCAGCCGCACTCTACGGG
CGTGACCTTGTGTGGCCGCTGCCCCCTGCTGTGCTGCAGCCCTTCCAGGACACCTGCCACGCACTCTTCTGCAGG
TGGCGGGCCCGGCAGCTGGTGAAGAACATCCCCCTTCAGACATGCCCCAGATCAAGGCCAAGGTGGCCGCCATG
GGGGCCCTGCAAGGGCTTCGTCAGGACTGGGGCTGCCGACGGGCTGGGCCCAGACTACCTGTCTCTGCCACT
GACAATCCCACAGCATCAAGCCTGTTTGCTCAGCGACTAAAGACACTTCGGGACAAAGATGGCTTCGGGGCTGTG
CTCTTTTCAAGCCATGTCCGCAAGGTGAACCGCTTCCACAAGATCCGGAACCGGGCCCTCCTGTCTACAGACCAG
CACCTCTACAAGCTGGACCCTGACCGGCAGTACCGGGTGATGCGGGCCGTGCCCTTGAGGCGGTGACGGGGCTG
AGCGTGACCAGCGGAGGAGACCAGCTGGTGGTGCTGCACGCCCCGCGGCCAGGACGACCTCGTGGTGTGCCTGCAC
CGCTCCCGGCCGCCATTGGACAACCGCGTTGGGGAGCTGGTGGGCGTGCTGGCCGCACACTGCCAGGGGGAGGGC
CGCACCTGGAGGTTTCGCTCTCCGACTGCATCCCACTAAGCCATCGCGGGGTCCGGCGCCTCATCTCCGTGGAG
CCCAGGCCGGAGCAGCCAGAGCCCGATTTCGCTGCGCTCGCGGCTCCTTCACCCTGCTCTGGCCCAGCCGCTGA
GCGCCCGCACCCGCGCACCCGAGGCCGCCAATTGTCCGCCCCGCCAGCGCTGCAAATAAACCTTCTGAGTCAG
CCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1768

GAGCTAGTGACAGGAGGGGCCGGGCTGGTACTTCAGGCGCCCAGGCCGGCGGGGCGGCTCCGGCGGCTCCTGTC
AGCGGCGGGTGCGGCGGATCCCAGGGCAGCCTTCGGGCGGCGGCGCTGCCTGGTGCGTCGCGGCGTGGTCCTCCG
GCGGCTGTCCGGGGCGGTAGGAGTTGGCTGCGGGATGTGCTCAGCCGGGGAGCTGCTGCGGGGCGGCGACGGCGG
GGAACGCGACGAGGACGGGGACGCGCTGGCGGAGCGGGAGCGGCAGGGACCGAGTGGGATCCCGGGGCGAGCCA
GCGGCGGCGGCGGACAGCGGCAGAAGGAGAGCGAGCAGGATGTTGAAGACTCACAGAACCACACTGGTGAGCCGGT
TGGAGATGACTACAAGAAAATGGGAACACTTTTTGGTGAAGTGAACAAAAACCTTATCAACATGGGCTTCACAAG
GATGTATTTTGGAGAACGAATAGTGAACCAGTAATAGTCATTTTCTTTTGGGTTATGCTGTGGTTCCTTGGCCT
GCAAGCCCTTGGACTAGTTGCTGTTCTTTGCCTTGTTATTATTTATGTGCAACAGTAAAACATGGCCGAATTGAA
TTGTTTGACATTTGGTAGCCATATATGTAATTGAAGAAGTTATATATTTCACTTTTTGACAACCGAAAAAGTTTG
CCTTGTTTCAAATCATGTGCTGGCTGTTTTGTAAGTAAATTTATACATGGATGCTACTTAAACTAAACTCTTGA
TCATAACAGGTTGAATATATATTTTGAATATACATTAGCTTATTCAAAACTCTTGTTTCACTACTGTGATCTCT
GTCTCCTTTTATACACCTCTATCCCCATGCCAAATCTTAAGTAACACCACCAGAAAGTGAACAGGAAAAATAACAG
GACATGGAATCAAATCAAGCAATATAGTTCTTATAAAGAGTTCCAATAAAACATTTTCAAGAAAAAGTATGAA
ACAAGCTAAAAGTAAGTTTCACTTAGAAAACCTTCTCCCACTCACACTCCCCACCAAATAATCTCATATTATTTG
GGAAATATTTGGATTTCATTGTCCTTACCCAGCCTAAACTAAGGTAAATGATAATTAGCATACACTACCTTAAT
ATTGTGATGAAAAATCAGTAAAGATAGAACGTTTTCTAAAGGTCAAAAAATAATATATTTATTATTACTGGGAAAG
CTCCAGGTTAAATATAACTTTTTTAAATGTAACATTTGGACCTAGACCTACTTTAATATATCATTTGAAGTTT
CAGACAATTTTGGTGCTAATTACTTTTTGTGAGTTTTTAAAGTCTCATAGCCTAGTTGACTGCACCCTATGGTAA
TGCCATATTTTCTGTATCTAACAAGTTGCATATTTTCTAGAGAGACATTTTCACTGTATTTTTTTTAGAA
ATTTATAATTTTATAGTTCTTTCATAACACTTATTCAGAGTTTTGAAACAATGTATTTCTATCTTGACATGGAT
TTTTTCACAAAAAATTTGTATTTTACTGTTGTTTTCAGGAAAAAATCAGATCATTTTTCTTTGATATCTATATC
AGAAAGGTACAATATTAACAGTATAAAACCAATGCTTAAATTTGGAACTTAGCCAATTTTGATAATCTTTTTCT
AAGGCTAAAGTCACATCAGTAATTGGCTAGCCATGTTATTAAGGTGTCTTAATTCAGCATTTTCAGGTTTTATAT
TGAAATACGCATTTCTTTAAATATTTCTTTGAAATGGAGAATGGCTTTAGTGATATTTTGGGTTTTGTTAGAGAA
CCTAAAATCTTTACACTTTTCATCTCAAAGATTATAAAGGAAAGGGGGTAGTTAAGATTTAGAATTCAGTTAA
TTTCAGAAATTTGGGCGAGTCAGGCATTTGTATCTTTGGTAGGGCAACAAGTAAAACATGTAGAGTGCTTGCTATC
CCACTTCATAAAGCTTTTACCCAATCTTATTTCTAAACCTCTGTGCATTCTTAGTGCTTCTCATTCTGAAACAG
AAAATAAGGAAAAACATTTAACTTAGTTTTCTAAATCAGATAATCCTAAACAAAAATGTTAGTCAGGGTCACTA
AAAAGTATTGCACATTTATATAAATACAGTCCTTTTAAATTTGACTTTTAAAAACAAAAGACTTTGTACGATA
TTGTGTTTTTATTGCTTTTGCAATATTTTATAGTAGCCTTTATGAACCTCAGTATAAGTGCAAGTTGTTTGA
GGTGTTTTTTATTAGTGCAATAGAATTGTGAGGTTTTCAATAGATGTGATGAGATTTGTATATCTACATAAAA
TATCAGTACATTTTTTTCTAATGCTACTGGAAATTTTACTTTTCTTTGCAACACATAAATGATATGATGTACAA
AATAACAGCTCTGGTTCCACCAGTACCTAATGTTGAAAACATTTTTAAAGTAATTTTTAATACTAACTATTTAGT
ATACTGTCAGTACTGTACATCTGCACACTGGTGTAAATAGGTATATATTAATTTATATAAAGAAATAAAAAAA
GAAAAA

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FIGURE 1769

MCSAGELLRGGDGGGERDEDGDALAEREAGTEWDPGASQRRRGQRQKESEQDVEDSQNHTGEPVGDDYKKMGTLF
GELNKNLINMGFTRMYFGERIVEPVIVIFFWVMLWFLGLQALGLVAVLCLVIIYVQQ

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FIGURE 1770

GGAACGAGGCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATCGATCCCGTACCCGGGACAGACTCGGCGCCG
CTGGCTGGCCTGGCCTGGTTCGTTCGGCCTCTGCACCCCGCGCGGGGGTTAGCGCGATCTCCTGCACCGTCGAG
GGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCTGTGCCTTAGTTCTCTGGGCAGC
CTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAGCCCCCTGCCGCTGGGCTTC
TCCCCGCTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCC
CTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGA
ATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCCAGTGCCCAAGCCCCGAGGT
CTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGGCGGCCTCCTGGAGCGGACA
GCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGAGGCCTCCAGCCTCTATGGC
ATCTCAGCCATGGATGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAGCTGCAGCCCCCTGGCCTTC
TCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAACTACGGCTTCGTGGTGGAG
AAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCGGAAAGAGCCCCCTTACTCC
ACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCACTCACTGCATCCTGGGAACC
TTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGAGGAGGGGGCGGGTCGAGGC
TGGTGGTGATGGGCTCTCCGCCCCACGCCCTGCCGGGCGAGGCTGGAGCTGGACAGAAGCCAGTGCCTTTAAG
TCATTGTGTCAAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTCCTGGCAATAAACACTACCCGGTTCTC
GCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1771

MDPVPGTDSAPLAGLAWSSASAPPPRGFSAISCTVEGAPASFGKSFAQKSGYFLCLSSLGSLENPQENVVADIQI
VVDKSPLPLGFSPVCDPMDSKASVSKKKRMCVKLLPLGATDTAVFDVRLSGKTKTVPGYL RIGDMGGFAIWCKKA
KAPRPVPKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRASTLRRND SIYEASSLYGISAMDGVPFTLHPR
FEGKSCSPLAFSAFGDLTIKSLADIEEEYNYGFVVEKTAAARLPPSVS

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FIGURE 1772

TTCGGCAGAGCCCTTGCGCGCTCTTGAATACCTGCKTTCTGTAGCGCTAGTTCTCTTCAAGATTTGCTTAGTGTC
ATTTCAATTCGGTTTCTTTTCTCGCCATGTTTTTCTGTCGGAATTACGGTTCGTTTTGGTTCTATGTACTCTCTA
AAATGTTATCGTTTTTCATTTGTCTACTAATTTTCGTGCATTTGTTACTACTGAGTTTCTTAATATCTGACTGGC
CTCCGCCCACGGGCTCTGCAGAXCATAAAATACTCAGGCTGATGGTAGTGCAGAGACTCTCCCTCCTTGATCAGC
GCAAACGTTGGTCTGAGGCTTGAGGGATGGAGCAACATTTTCTTGGCTGTGTGAAGCGGGCTTGGGATTCCGCAG
AGGTGGCGCCAGAGCCCCAGCCTCCACCTATTGTGAGTTCAGAAGATCGTGGGCCGTGGCCTCTTCCTTTGTATC
CAGTACTAGGAGAGTACTCACTGGACAGCTGTGATTTGGGACTGCTTTCCAGCCCTTGCTGGCGGCTGCCCGGAG
TCTACTGGCAAAACGGACTCTCTCCTGGAGTCCAGAGCACCTTGGAACCAAGTACAGCGAAGCCCACTGAGTTCA
GTTGGCCGGGGACACAGAAGCAGCAAGARGCACCCGTAGAAKARGTGGGGCAGGCAGARGAACCCGACAGACTCA
GGCTCCRGACGTTCCCTGGAGCAGTCTCTCCATCCYTGGGACAGACAGCAGGACACCGAGGTCTGTGACAGCG
GGTGCCTTTGGAACGCCGCCATCCTCCTGCCCTCCAGCCGTGGCGCCACCTCCCGGGTTTCTCAGACTGCCTGG
AGTGGATTCTTCGCGTTGGTTTTGCCGCGTTCTCTGTACTCTGGGCGTGCTGTTACGGATCTGTGGAGCTAAGC
AGCCTTAGATAGCAGCAGAAGGCTTTTTGGATTCTCCTCCTTGAAAAGATTCTCAGTTACCAAACGTCTCCACCT
AGAAAATAAAAATACATTAAGATGTTGAXAAAAAAXAAAAA

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FIGURE 1773

MLSFFICLLIFVHLLLLSFLISDWPPPTGSAXHKILRLMVVQRLSLLDQKRWSEA

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FIGURE 1774

GAATCTCTCGCGGGCAGCAGGGCGCGCGCTGCACGCACAGTACTAGGTCAGGTGGTGCTCCCGGGTGAGGAGCTG
CTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGGTGCAGTGGAGCGACCGTTGAGCCTGAATGCTAGAGCG
TGCTCGCGGGTGCGCGTTTGTATGCGGTCCGGGCCTTCGACGCTGTGGGGACCGCCTGCTGGTCACCAAGTGCGG
CCGCCTCCGTCACAAGGAGCCCGGCAGTGGAGGCGGCGGCGGTGTTTACTGGGTGGACTCTCAGCAGAAGCGGTA
TGTTCCAGTAAAAGGAGACCATGTGATTGGCATAGTGACAGCTAAATCTGGAGATATATTCAAAGTTGATGTTGG
AGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCAATTTGAAGGTGCAACTAAAAGAAACAGACCAAATGTGCAGGT
TGGAGATCTCATCTATGGCCAGTTTGTGGTTGCTAATAAAGACATGGAACCAGAGATGGTCTGTATTGACAGCTG
TGGACGAGCCAATGGAATGGGTGTCATTGGACAGGATGGTCTGCTTTTTAAAGTGACTCTGGGCTTAATTAGAAA
GCTATTAGCTCCAGATTGTGAAATCATACAGGAAGTGGGAAAACCTCTATCCACTGGAGATAGTATTTGGAATGAA
TGGAAGAATATGGGTTAAGGCAAAAACCATCCAGCAGACTTTAATTTTGGCAAACATTTTAGAAGCTTGTGAACA
CATGACGTCAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAGAAAAGTTGATATAGGTGGACTTTTTTACAGGT
CAGTTGAGGCAAAAACTATGGGTTTTTTTCAGGTGAACCTCCCCATTAAATACTCAGAAGATAAGGTGTGAAT
GTATGTATTATTAGAGTCCGAAAGTATTTTTATAAGTTACTGGTTTTTCACCCACGCTTTTGTGGGAGAGAAAATC
ATTGCAAAATCATTTTTTTTTGTTTCGGTACAATAAAGTTTACTAAAAAACAAA

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FIGURE 1775

MLERARGCAFVCGPGLRRCGDRLLVTKCGRRLRHKEPGSGGGGGVYWVDSQOKRYVPVKGDHVGIVTAKSGDIFK
VDVGGSEFASLSYLSFEGATKRNRPNVQVGDLIYGQFVANKDMEPEMVCIDSCGRANGMGVIGQDGLLFKVTLG
LIRKLLAPDCEIIQEVGKLYPLEIVFGMNGRIWVKAKTIQOTLILANILEACEHMTSDQRKQIFSRLAES

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FIGURE 1776

GAATTCGGCACGAGCAAATGTTGAACCAATTATGTTTTGGTGGTGGTGTCTTAGCTGTTGAATCCTGAATGGTT
TATAAAGTGAAGTAGCTGGCTTAATGCAGCCAGCGTTCTGGGCAGCAGAACATATTCATTCTTACTGTAAATTCT
ATTTGCTGCTTCCAAAGGTGATGATTTTCAAGCAGACATGTTCTATATGGTCTGTGTTTTAGGATCTGGTGCCCA
GCCTCTATCAGAGCTTGCTTACCTGGCAAAGCTGCCTACCTTCAAGTGGGAAAAATATAATCCACTGTTTAACAA
GGCTCACCTCTCCACCCTGTCCTAACGACCTTTTGTGAATGTGCTGTGATATTTTCTTGCTCAATAGCAAGGTG
GTAGCTCTGCTTTCATTTTAGAAAGTGGAGGCTGAGGCATTGTATCAATACTGTTGCAACTCAAGAGTTT
CCTTGTAATAAAGGAAAGATCTTGTTATTGATTAACCATTTCTTATGCCTTGCTATTGACATATTCATGCT
CTTTCTACGTCTAGTGGCTGAAAATGTTTGCAATTTGTTCAATTTGACTAATGGTGTGATTTTTGKYWCATATTAT
TAGACCTGTAATGTTTTAAATGTATTTTATTAAATTTGGACTGGATGTATGKCTCTAGCAATACGAGGTACTT
TCTAAACTATTAAGGGAGGGGTTGTAYCCTCATGTTGAGATAAGATGATGGTCGTTTAAATTTTGCAATTTTTTT
TGGCCTGCAGGGATATTTTGTGTTTATGTGTCCAAAAAAGGAATAAATTGGCATTCTTGTGCCAAAAGTTGTTTT
TCCTGTCAATTGTCTAATAAGTATGCAGTACACTGTAATGGCAACATACATGGTTGCTTTATAAAAACAGTTTCC
TCAGTATGAGAAATTTTACAAAGAACAGTGGAAAAACTTTGTGTTTTTAACCTCTGGGTCTCCCTATTTTTAAAA
ATTGCTATTTGGTATACAATTATTATGTGTCAATTAAACTAAAATAAACTTTTAAAAAARAAAAAAAAAAAAA
AAAAAAAAAACTCGTA

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FIGURE 1777

MFYMCVLGSGAQPLSELAYLAKLPTLQVGKYNPLFNKAHPLHPVLTTFCECAVIFSCSIARW

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FIGURE 1778

GGGGAGATCCGGCTAGAGGGGAGGCTCTGACATCTCCTTCCTTCCTGGTTCTCTGCAGCAGCTGCTGCCACTGCTC
AGCGCGGTGAGGAGGGAGCCGGTGACTCGGAGACGGTGACTCAGAGGCAGAGCGGCGCAAGGGCCAAGGAGTACT
GGCGTCCATGGACCCTGGGGACCCCGTCAGGAGCAGGTGACATCCTTCCCCTTCCACCTGCTCCCTGCTCTACA
TCCCCAGCAGGGAGTGGCCTCTCCCTTCTCCATGGACTTCCAAGAGAGGGACCCGCCCTTCCTGCCTGAGAGCGC
TCAGTCTCTCAAAGCCCAGCAGTGCTCAGCAGGCCTCTGAGCTGTGGGAGGTGGTGGAGGAGCCTCGGGTCAGGCT
GGGGACAGAGGGTGTCTATGCCTGAGAGGCAGGAAGGTACCTGCTCAAGAGGAGGAAGTGGCCTCTGAAGGGCTG
GCACAAGAGATACTTTGTGCTCGAGGACGGGATCCTTATTATGCAACAACCCGGCAAGACATACCAAGGGGAA
GCTCCATGGCTCCATCGATGTCCGGCTGTCCGTATGTCATCAACAAAAGGCCAGCGCATTGACCTTGACAC
TGAAGACAACATCTACCACCTCAAGATCAAATCCCAGGACCTATTCCAGAGCTGGGTGGCGCAGCTGCGTGCCCA
CCGCCTAGCCACCGCCTGGACATGCCCCGTGGCTCACTGCCCCAGTACTGCTCACCAGGAGGTTTCTGGTGCCCA
GCTTCCAACAGCAGCTACTGCCTCAGCCCTACCTGGGCTTGGACCGCGGAGAAAGTGTCTTCCTGGCTGAGGGA
CAGTGATGGGCTGGACCGCTGCTCTCATGAGCTCTCTGAGTGTCTGAGGGAGGCTCCAGGAACTACACAGGCTCCT
CCAGAGCCTGGAGTCCCTGCACCGAATCCCCTCAGCCCTGTTATCCCCACACACCAGGCTCAGTGACAACCGA
AAGACCCAAGGAGGAAACGGACAAGCCGCATGTGGTGACCCAGAGCTTTGCCAAGGATGACACCATTGGACG
GGTTGGTCTCTCATGGCTCTGTTCCTCAACCTGTCTCGCTACCTGGAGTCTCGGGACTCCTCGGGCACCCTGG
GCTGCCACCCACAGACTATGCCACCTCAGCGCAGCTCTGCGGCCCTGGCCAGAAGGTGCACAGCTCCCTCAG
CAGCGTCTTGGCCGCCCTCACCATGGAACGGGACCAACTGAGGGACATGCACCAGGGCTCAGAGTTGTCAAGAA
GGGGGTCTCTGAGGCCCTCCACTGGCCAGAGGCGCTCCACTCACTGTCCACCTCCTCCGACACCACGGCGGACTC
TTTCACTCCCTCAACCTGAGGAGCAAGAAGCTCTGTATGAAGGGGCGGAGCTACCCCCAGCTATCGCA
GACCAGCATCCTGTCCCTTGCTGATTCCACACGGAGTTCTTCGATGCCTGCGAGGTTCTCCTCTCCGCCAGCTC
TTCTGAGAATGAGGGCTCAGAGGAGGAGGAGTCTGTACCAGTGAAATCACCACCAGCCTGTCTGAGGAGATGCT
GGACCTCAGGGGAGCTGAGCGCTGTCTAGAAAGGGGGGTGTGTTCCAGGGAGACCATGGGGCCACCCCGCGTCTG
CTGCCCTGCCGGCGGCCAGCGGCCCTGGGGCTGACGTGAGCCTGTGGAACATTCTGCGCAACAACATCGGCAAGA
CCTGTCCAAGGTGTCAATGCCTGTGACGCTCAACGAGCCGCTCAACACTCTGCAGCGGCTCTGCGAGGAGCTGGA
GTACAGCAGCCTCCTGGACCAGGCCAGCCGCATCGCCGACCCCTGCGAGCGCATGGTGTACATCGCAGCCTTTGC
TGCTCTCGGCCTACTCCTCCACATACCACCGAGCCGGCTGCAAGCCCTTCAACCTGTCTGGGGGAGACCTACGA
GTGTGAGCGGCTGACCAGGCTTCCGCTTCATCAGTGAGCAGGTCTCCACCAACCCCTATCTCGGCCTGCCA
TGCAGAGTCTGAGAATTCTGCTTCTGGCAAGATATGAAGTGAAGAACAAGTTCTGGGGCAAATCCCTGGAGAT
TGTGCTGTGGGAACAGTCAACGTGAGCCTGCCAGGTTTGGGGACCACTTTGAGTGAACAAGGTGACATCCTG
CATTACAATGTCTGAGTGGTCAGCGCTGGATCGAGCACTATGGGGAGGTGCTCATCCGAACACACAGGACAG
CTCCTGCCACTGCAAGATCACCTTCTGCAAGGCCAAGTACTGGAGTTCCAATGTCCACGAGGTGCAGGGCGCTGT
GCTCAGTCGGAGTGGCCGTGTCTCCACCGACTCTTTGGGAAGTGGCACGAGGGGCTGTACCGGGGACCCACGCC
AGGTGGCCAGTGCATCTGGAAACCAACTCAATGCCCCCGACCATGAGCGAACTTCGGCTTACCCAGTTTGC
CTTGGAGCTGAATGAGCTGACAGCAGAGCTGAAACGGTCTGCTGCCCTTCCACCGACACGAGACTCCGGCCAGACCA
GAGGTACCTGGAGGAGGGGAACATACAGGCCGCTGAGGCCCAGAAGAGAAGGATCGAGCAGCTGCAGCGAGACAG
GCGCAAAGTCATGGAGGAAAACAACATCGTACACAGGCTCGCTTCTTACGGCGGCAGACGGATAGCAGCGGGAA
AGAGTGGTGGGTGACCAACAATACCTACTGGAGGCTGCGGGCCGAGCCAGGCTATGGGAACATGGATGGGGCCGT
GCTCTGGTAGCCCTGGCCCCGGGGCAGGAGGCTCTGGTTCTCACTCCTCTGCTCCACCCCTACCATGGAC
ACATGGGTGAGGCCGGGCTCCCCGCTCACTGCCCTTCTGCCCATCTCCAGCATCTTCTTCCCTTCCCTGGCCC
TGCAGGGCCTTCTCCAGCTCCCTTTGGTTAGTCCCTGGCCATCCCTCCTGTCTGGATCCCTTCTCCCTAACTGC
AAAATGCCTGCAGCTTCCAGCTCCTTCTGCTCCCTGATCCTCAAGCGGTTCCCTCCCGTTTACGCTCAGCGGATCCC
CCAGAGTGGAGGAGGCTCTCCATGAGGAGGGGAGCAGCCCAAGGCACCTGTCTCTGACCCACCGGCAGCGAGT
GCGCAGGTGTGAGTGTAAGTTTATGTAGGAGAGTGTATGCGTGTGCGCTGTGCCCTGCTTGAGGCAAGCAGGG
CTCCCTCATGTAGCCCCGCTTCCCCCTGTGGGGTCCACCACATCGCTGCTCTTCTCACAGTCTGCCTCTGA
TGAGGGCGAATTGCTATGACATTCCAAGCTCCAATAAAGACTGTCCCAG

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FIGURE 1779

MDFQERDPPFLPESAQSSKPSAQQASELWEVVEEPRVRLGTEGVMPERQEGHLLKRRKWPLKGWHKRYFVLEDG
ILHYATTRQDITKGKLHGSIDVRLSVMSINKKAQRIDLDTEDNIYHLKIKSQDLFQSWVAQLRAHRLAHLDMPR
GSLPSTAHKVPGAQLPTAATASALPGLPREKVSSWLRSDGLDRCSHELSECQGLQELHRLLOSLESLEHRIP
SAPVIPTHQASVTTERPKKGKRTSRMWCTQSFACDDTIGRVGRLHGSVPNLSRYLESRDSSGTRGLPPTDYAHLQ
RSFWALAQKVHSSLSSVLAALTMRDQLRDMHQGSEL SRMGVSEASTGQRRHLSTSSDITADSFSSLNPEEQE
ALYMKGRELTPQLSQTSILSLADSHTEFFDACEVLLSASSSENEGSEEEESCTSEITTSLSSEMLDLRGAERCQK
GGCVPGRPMGPPRRRCLPAASGPGADVSLWNILRNNIGKDLKVSMPVQLNEPLNTLQRLCEELEYSSLLDQASR
IADPCERMVYIAAFVSAVSSTYHRAGCKPFNPVLGETYECERPDRGFRFISEQVSHHPPISACHAESENFQWQ
DMKWKNKFWGKSLEIVPVGTNVNLSLPRFGDHFENKVTSCIHNVLGQRWIEHYGEVLIRNTQDSSCHCKITFC
AKYWSSNVHEVQGAVALSRSGRVLHRLFGKWHEGLYRGPTPGGQCIWKPNMPPDHERNFQFTQFALELNELTAE
KRSIPSTDTRLRPDQRYLEEGNIQAAEAQRRIEQLQDRRKVMEENNIVHQAQFFRRQTDSSGKEWWVTNNTYW
RLRAEPGYGNMDGAVLW

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FIGURE 1780

AGCGGAAGGGGCCTTTCGGAACGATTGGAACGAAAGGAAGTGAAGAAACGCGGAACCATGCGCGCTGTGGTTG
CTGTTTGCGGTGGTCTAGGGAGGAAGAAGTTGACACACTTGGAACGGCTGCTGTCAGCCTTACACATCCCGGGA
CTCACACGGTGCTTTGGAGAAGAGGTTGTTTACAACAGGTATCCAGCAATGAGGACCTGCCCATTTCATGGAAA
ATCCTTATAAAGAACCTCTTAAGAAATGTATCTTGTGTGGAAGCATGTAGATTATAAGAATGTACAGCTTTTGT
CCCAGTTTGTTTCTCCATTTACTGGATGCATTTATGGAAGGCACATTACAGGTCTTTGTGGGAAGAAACAGAAAG
AAATCACAAAAGCAATTAAGAGAGCTCAAATAATGGGGTTTATGCCAGTTACATACAAGGATCCTGCATATCTCA
AGGACCCTAAAGTTTGTAACATCAGATATCGGGAAATAAATTCTATCACGTTACCACTAATAAACTTATTTTACAG
TAAGTGGTTGTATGATGCCAATACTGACTCAAACCAACCTTTGGATAGAAAAGTGTGTTGAGGAGTGAGGTAAAGA
ATGACACTTCCCCTTCATACCAATGTCCATTAAGCAGATTGCTTATTTAAATGTTAACACTCATCACATTTTAT
CTATGTTGAATAAAAGTGGTTCTGTGTGATTGTCATTTATCTGATCCCCAAATAGCTCATACAATAATCCATT
CAATAGAATGGAATTAAAACTGTTTCAAGATGATTTTCCAACTAGCAAATATAAGTATGCCTGGTTAAGATATCTT
CCCTTTGTAGAAATGTTACATTGGGATGGATAGTGGTGTGTCACAGAAGGACAAAATATTCCTAGACGAGTCTA
TCCTCAAACCAGTAGTGTCTTTTACATGAAGAGATGATTTACACCTAATAGACATTGAATATGATAGACATACAT
GTATATATGTATCAGTTCTGAGTTCCACTGGCCTATCCC

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FIGURE 1781

MAAVVAVCGGLGRKKLTHLVIAAVSLTHPGTHVLWRRGCSQQVSSNEDLPISMENPYKEPLKKCILCGKHVDYK
NVQLLSQFVSPFTGCIYGRHITGLCGKKQKEITKAIKRAQIMGFMPVITYKDPAYLKDPKVCNIRYRE

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FIGURE 1782

TATGTTAAAGTCTGGGACATGTAAAGGAGGACAATTGCTAGTATCTTTGAAAAATCATCACAAAACCGTGACA
TGTTTATGTCTAAGCAGCTCTGGACAGAGGTTACTTTCTGGCTCACTGGATAGGAAGGTGAAAGTATACAGCACA
ACTTCCTACAAAGTAGTCCACAGTTTGTATTATGCAGCTTCAATTTTGAGTCTTGCCCTTGACATGAAGATGAG
ACAATAGTTGTAGGAATGACCAATGGAATACTGAGTGTAAACATCGGAAATCTGAAGCAAAGAAGGAATCACTT
CCCAGAAGAAGAAGGCCTGCATATCGAACCTTTATTAAAGGAAAAAATTACATGAAGCAACGGGATGACATTTTG
ATTAACAGGCCAGCAAAGAAGCACCTAGAATTGTATGACAGGGATCTGAAACATTTTCGGATCTCTAAGGCCTC
GATAGAGTTCTTGGTCCCCTTGTACAATAAAGACACCCGAGATTACGGTGTCCATCATAAAGGAGTTAAATCGA
AGAGGAGTCCTTGCAAATGCGCTTGCAAGTCTGGGATGAGAAGGAAATCAGTCATGTTCTTAATTTTTTGATAAGG
AATCTTTCTCAGCCAAGATTTGCTCCTGTTTTAATCAATGCTGCTGAAATAATTATTGATATATATCTGCCTGTA
ATTGGTCAGTCCCTGTAGTTGATAAAAAGTTTTTACTACTTCAAGGACTGTAGAAAAAGAGATTGATTACCAA
AGAGAATTGTTAGAAACCTTGGGGATGATGGATATGCTTTTGCCACCATGAGAAGGAAGGAAGGCCTTCTGTG
TTGGAACACACATCTGATGGATTTCCAGAGAATAAGAAGATAGAATCATAGTGCTGCTAAATAAGACATATAAG
GACTCTGAAGTTGGAATAGATTTGACTGTATTAAATGTTGGCGAGAGACTCTCTTGATACATTAAAAAACTGT
TTGCAGAAGCAGTTCTGTGGAAGAGACTGGAATAATTATGGCCGAAAACAGTACCCGTTTTAAGTAAGACATG
GTTTTCCATGTAATATTTGAATTATAGCATCTTCACCTAGAAGATCTCAATGTCTTAGTCACAGAGTAGGTTT
ATCTGGGATGGATATTAATTTTAATACAGGAGTGTTCTGTATCAACATTTGGGTTGGIATTAGATGGGAATTC
AATATGAATCCTCTCTGGAGAGGGTCCAACTGGGAATCCTGCTAAAGGAGCAAAGCCTTGATTACCTCTGGAAG
ACAACAAAAACAATTGGCAACAACAAAAAGCCTCTTTCTTGACTTTAATCAGTGCCTTTGGGATTTCTGGGCCCT
TGCTTAGCTTGCTTCTCTCTCTCTGATATCTACACTTGTCTTAGATCACATGCCCTGCTTCAGCTGGTAATGGG
ACTGCATCGGTTCCAAGTGTGGCAAGTAAGTTTTCGGCTCTGAAGAACTGACACTAGCTAGATTTGTATTACAGAG
TGTGAGAGCAAGCTCTACAGATAGACCTTATTGGACTACTTTTTTTTTTTCTTCATGCAGCCTTTCTACCAAGT
TTTCACCTTGTTTCAGGTCAGAGGAATGATAGAATTTGTCAATTTTCTTACAACAGCCTTTTCAGACTATTCTTCA
TATGTTTCAAGCTAATCTTGATAGCTAAGCTACCTAATCCTCTGAAAACCTGTTTTCTCTGATTTGTATTTAGATT
CTCCCCCATTATTACAAATCATATTGTATTTTCGGAACCCCAATGCAGAGCAGTTTGCTTTGAAAAATAGTTGTT
TTTTAAAGTTTAAATGTAAATAATTATTTTTTAGAAGTTTTTTTTTTTTTAAAGACAGGGTCTCGCTTTATCG
CCCAGGCTGGAGTACAGTGATGCAATCTCAGTCCACTGCAACCTCTGCCCTCCCGGGTTTAAGCAGTTCTCCTGC
CTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCCCCACCACGCCTGGCTAATTTTTGTAGTTTGTAGTAGAGAC
GGGGTTTACACCTTACCGGGCTGGTCTAAAACCTCTGACCTCAAGTGATCTACCTGCCTCTGCCTCCCGAAGTGCT
TGGATTACAGGTGTGAGCCACTGTGTCCAGCCTGTAATTTATTTTATAAAGAGAGATTCTTATTTTCTTG
GCTTTTGTATGATCTGTCTCTGATAGATAATCATTGGCTAGTAACTCCTAGTACACTGGTTTCACAGTTGCTAC
CTCTCCTGCTTTTCTCTAATTATTACGCCAACTCAAGTAGTTAAAAATCAGTAAGAAAAATGTCTTGAGCTAGAA
GAACCCATAGAGGAAGATTTTGTAAATGCGAATCTCCTCTCATAATTTTAGTTCTGTAAATTCAGGGTTTTTTTT
GTTTTTTGTTTTTTTTTAAGCCGAAAAAATGCTTAATATGTTCCAGTAATGGTATTAAGTAATAAATAAATAAAC
GTATTAAGTTTAAACATATTAAATTAATTTAACATTTAGACTAACATTAACATTTAAATTAATATGTTAAGTGAAT
ATACTTAATATATTCTAGTACAGGTATGCTTGGAAATAGGGCGTTTCCTTTTCATGAATTGATTTTCGTACAGCAC
AGTGGCTTATAAGGAACACAGCAGTGTTTTCCCTGAGTAATTATGAACCTTAGTCAAGATCAGAAGCTGGGTTTTG
GGGTTGAGAAGAGTTTCAATTTATTTAAATAAAGTTTCTATTTAAAAACCTTT

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FIGURE 1783

MLKGGQLLVSLKNHHKTVTCLCLSSSGQRLLSGSLDRKVKVYSTTSYKVVHSFDYAASILSLALAHEDETIVVGM
TNGILSVKHRKSEAKKESLPRIIRRPAYRTFIKGNMQRDDILINRPAKKHLELYDRDLKHFRISKALDRVLP
TCTIKTPEITVSIIEKLNRRGVLANALAGRDEKEISHVLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPV
VDKKFLLQGLVEKEIDYQRELLETLGMMMDMLFATMRRKEGTSVLEHTSDGFENKKIES

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FIGURE 1784

CGGGCCCGGGTCTTCCCGCCTCCGCGGCCGCGGGCGCTTTGTTTCCCTGCCTCTGCGCTTCGGGCGACTCG
AGAGGGTCTCCCGCCGGGTTGCGAAGGGGACGCGCGGCAGAAAGGGCGGCCGACCCCGCCGGGACTCACAGGGA
CCCAGGAGTCCGCGCCCGGGAGGGCCGCGTGAGGAGAGCGAAGAGGGAGCCCGAGCTCTGCGCCCCCGGGTGGC
GGGCCGGGGCGCCCGTGAGCAGAGACCTCCCCGTCGACGGGGGGCGATGTCCCTCACCCGTGGGCTCTTCGG
GCAGCCAGGGCATCCCGCCGTGGGACCTGGACCCGCTCAGTGGGCACCCCTCAGGCTGCTCCATGAGACCCCTG
TGCCCTGCGCCCCGCTGGCAGTGCCGGCGTCCCCGCGAGGGTCGCCCTGCTCCCCACGCCCCGGAAGCCGTGT
CGGGGACCCAGGAATTCTCTCCGCTGTGCTGCGTGCCTTCGCTTCTGCGCCCTTGCCAAGCCCCGGGCGTCC
TCTCTGGGCCCCGGGGCTGGGGAGCTGGCGGCGGGTCCCCAGTGTCTGCGGGGCCCTCAGGCCCCCTGCGCCCT
GGCGGTGGGCCCCGGATGGCCTGAAGCACCTCTGGGCACCGACCGGGCGGCCGCGTTCCTAACACCGCCGCC
GGCAGGATGCGGACGTGCGAGCGTGCCCCCGCCGCGGAGAGGAAGAGGGCGGAGGCGGTTTCCCGCACTTC
GGCGTTCGCTCTGTGACCTCCGGGCGGTGCCCTGCGCCCCGCACCCCTCGGGAATCTACGACAGCTTCGCC
TCGGCCCCGCTCGCCCCGGCCCCGGGTCTCGAGCCTCAGCGTGGCCAGCCGCGCAGCCCGCTCAGGAACCCAGT
TCCCGGCTCCGTGCGCACCTGCGGGCCTCTCCACCGAGCCCGGGTCCCGGACGGCGCCGCGGCCGTTCCTG
CCCGGCCAGCTGCCGAAGTCGATGGAAACCCCCCGCGGCCCGCCCGAGGCTCCAGCGGCCAGCCCCCTCGACG
GCCAGCCCGGCTCCGGCCGACCCGGAGATCTCCGCCAGGAACATTTGATCGTCTGATCCGCCGGTTCGAAACTT
TGGTGTACGCGAAGGGCTTCGCTTGGACACTCCGAGTTTGGCGCGGGGGCCAGAGCGGCCGCTGCGAAAGGG
CCGGCTCGGGGACCGCCAAAGAAACGCCGGGTGCCGGCGCCCCCTCCGCGCACCGCGCAGCCCCGCGCCCTGCA
CCGAGCTCCCCACCGAGCACCTTCAGCTCCTCAACTGCTTCCCTGCCCCCGGCCCTGTTGGTGGGGGAA
GACGAGACCTAAAGCCGGCATCCTCGCTTCGCTTCCAGGGAGACTCTAAGCCCCCGCCGCCACCCGCTGTGG
AGGTGGCAGATGGGGGGTCCCGCTGTCCCTGAGCCCCCTGGCTCAAATTTCTGGGGGATCAACATGGATGAAAGC
TGACCGTGGGACTTCTGCGAAAGGGGAAAAAGTTGGGACCATGGCCAAACCGCGGGCTTGAGGAGGGAGCCCCGTT
TCTCACATTTGTCCCTTCTTTACATTTTAGGAGCTGTGGGCAGAGGGACCTAAATAACAGTGATCTTCATTCA
AGCACCTAAGTTTTTCGGGGTGACAGTCCCTCCCCCTCATCTTTGCGAGAGGAACCCAGGGCTGGAGTCGGGAGAA
GGCTGATGACATAGATTCCAATCCCTGCCTCCTTCCATCTCGGACCGTTGGAGGCAGGGCCTGCACCCAGTGGG
AGCAAAGGAGGCCACCGCTCAAAGACAGCCCCCTACCCAAAAAAGGGGAGAAAGAGAGACCTCGGTGATGGA
CAAACCGTTGTTACTGTGTCTGTGGGCGAGCCTGGGGTGGGGGCTGTGGTGGGGGTGGGGAGATGATTGGCAG
CTCCCTGGGGGCATCCCCACCCCACTGTCCAGGCCTTTAACCTTTGCTCCCTCAGGCCTTCCCTAACGCTC
CAAGCACCGCTGGAGCCTTTAATGGGTGAGGGAAGTTGGGTAAAGGAAGATCACCCCTTCTGTCCCTTTCT
AGGCCCCCTCAAGTGCAGGTGACCCCTTAATTGGTGAGATCTTCAGCCTCAGCCGCCGACCTTTCCCTTTTGTCCA
GTTTTGGAGTTCCCGTTTTTTCTTGTGTTTCCGAGTGTAAGGTCTGGCCGGTGAGAAAGATTTCCCCAAC
CTTGATTAATCAGCCCCCTCCCCAACTTACTTCCCTTAGGACGGGTAGGGCTGAGGGACCTCCTCTCTCGAAA
GTGCTTACTTTGCCTGGGGAAGGGGCTAGACACTGTCCAGGGAAAGTAATAGAAGGTGGAAGAAATCAATAAAA
TCAGACCAAAAGTGCCTTTTCGAGGGCCTCCACCGATTTATGGATGAGAGGGGGTGGAGGTGGAAGGCAGGCC
CAAGTCCATTCTTTGGACACCCAACTCAGCCCCCTTAAAGAGTGGAAACAAAACAAGCTGCACTTTGCAGAGGT
GGTAAATGAAAGGACTCTTGGCCTAACTTCAAGAGTCCCTGGGGTTTGAAGGGGCAAAGTTTGTGCTGGATGG
AACCTGGGCTGAGGTACCTTAAGCTTCCCCCGCAACACCCAGCCTCAGGGATTGCGGGAGTTGTCAGAGATCT
GATGGATCCGAAAGGGGAGGGCCAGGGGATTAGGTTTGGGGTCAGAGGTTCTGTTTTCCAGGGGAGGGGTGAGA
TAGGCCTGGATCATGCCCTCTGCCATGCCCTCCAGCTAGGAGGATCTTGAGTCAGAGAGGATTGGAAGTCTTTC
TCTCCACCCAGGTGAGGTGAGGGGAGCTTAGGTCTTAGGGAGATGGCAAGTTGAGGTATGAAGGGAAGCTGGGG
CTTTTGGAGCTGCCGAACAAGTGGGGACCCAGTGGCCTTCCATCCCGCACTAGTGAATAGCGCCCCCTCTTCC
CCGAAAACGAGGTGCGAGAGGAACAATTCCACGCTGGGGAAGGACTTGTCTCCTTTCTGTGAAATGCTTTG
TAAAAAGTTGTTATTGTTTGCATAGAGCAGATTCTTGAGAAAACTGTTTGGACCATAAAAGTTTTGTTGTTT

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FIGURE 1785

METLCPAPRLAVPASPRGSPCSPTPRKPCRGTQEFSPCLCLRALAFCALAKPRASSLGPGPGELAARSPVLRGPQA
PLRPGGWAPDGLKHLWAPTGRPGVPNTAAGEDADVAACPRRGEEEEGGGGFPHFGVRSCAPPGRCPAPPHPREST
TSFASAPPRPAPGLEPQRGPAASPPQEPSSRPPSPPAGLSTEPAGPGTAPRPFLPGQPAEVDGNPPPAPEAPAA
SPSTASPAPAAPGDLRQEHFDRLIRRSKLWCYAKGFALDTPSLRRGEERPPAKGPARGAAKKRRLPAPPPRTAQP
RRPAPTLPPTTSTFSLNCFPCPPALVVGEDGDLKPASSRLQGDSKEPPAHPLWRWQMGGPAVPEPPGLKFWGIN
MDES

A

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FIGURE 1787

MTMETVESQHDGSITASLTESKSAHVQTQTGQNSIPALAQVAAIAETDESAESEGVIDSHKRREILSRRPSYRKI
LNELSSDVPGVPKIEERSEEEGTTPPSIATMAVPTSIYQTSTGQYSMYAAIRYDTVLALSLL

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FIGURE 1788

ACATGACGGGCACGCCAGGCGCGGTTGCCACCCGGGATGGCGAGGCCCCGAGCGCTCCCCGCCCTGCAGTCCGA
GCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGATCCAATTCA
AAGACGGGGCCTTCTGTCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGGAACAAGGTGGTGACTGTGG
ATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGAACGGTTCGGAAGCGTCACCCATGCTTATT
ACAGAGATGCTCAGGCCTTGCTTCTGCTGTATGACATCACCAACAAATCTTCTTTTCGACAACATCAGGGCCTGGC
TCACTGAGATTCATGAGTATGCCCAGAGGGACGTGGTGATCATGCTGCTAGGCAACAAGGCGGATATGAGCAGCG
AAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGCCAGGGAGTACGGTGTTCCTTCCCTGAGACCAGCGCCA
AGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCATCGCCAAGGAAGTGAATACCGGGCCGGGCATCAGGCGG
ATGAGCCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAGAAGAAGCGCTCCAGCTGCTGCTCCTTCATGTGAA
TCCCAGGGGGCAGAGAGGAGGCTCTGGAGGCACACAGGATGCAGCCTTCCCCCTCCCAGGCCTGGCTTATTCCAA
GAGGCTGGTCTTGAAATTCCTGAGCTCAAGCAACCTGCCGGCCTCGGCCTCCCAAAGTACTGGGATTACACGCAGA
AGGCACCATGCCCAGGCTAGATGTGTCTTATCCCAATCCTTTGGCAGGCATGCAGCTCCACAGGCGATTTCTTCA
AGCAGCTGAAGTGTTTAGCCCTCCTGGGTAAAGAGCCAGATAAGGAGAAATCCCTTTCTAGGTTTGGAATGTGT
TGTGAAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAGATTAAGCAAACCTCCCCTGACATGTA
TCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCCATGCCCTTTCCCTTTAACTTCTCAAACAGATACCAGG
GCCTAAACTGCTTTACCTCCCCTCCTACTGAGTCAGGTTAGGTGGTGGGAGGTCACCCATTTCCGAGTTAAACCA
ATGCAATATGAGTAAACAAAGTCATGTGGGTATGCTGGGGTAGAGAGAGGGGTAGCAAGTTCATGTGTCTCCTCC
TTGGTCACATATCTCCCAAAGCTCCGATCCCTGCCATGGGAAGTGGACAGGAAACATGAGGTCATGACCTGCAGG
CATCTTTACTGCAGCTCTGCCGGCTGGAGGGGGAGAGGGGGAGGAAGAAGTATGCGCTGCACATTTCTGAGGCT
ACTGCATTTGCTTTCAAGGCAGAAATCTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCCGATAAGGAAGTTC
TCCGTGGCCTCCCTCAGGCAGAGCAGGGAGGAGGCTGACATTGCCAGTCTCTTCTGGGGCCCCAAGGCAGGTTGCA
GGAGATCCAATCCCATAGACAGCTCTGGGCCTCTTGCAATTTGAGTTTTTCAGAATTAACTGCAGTATTTTGGA
AGCAAA

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FIGURE 1789

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKVMLLGDTGVGKTCFLIQFKDGAFLSGTFIATVGIDFRNKVVTVD
GVRVKLQIWDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLLGNKADMSSE
RVIRSEDGETLAREYGVPFLETSAKTGMNVELAFLAIKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

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FIGURE 1790

CTATCTTAATTCATTTTATTCTACAAAATGCTACTCAACTGAAAGTGGAATGCTAACCCCCCTCCCCAAAAA
ATCGCAAGGGAAAGAAGTTTAAATATGTTCTTTCTTCATAGCAGCAAGCTTTTCTAACAAGCTTCTTTAGTG
CAAATACTGTAGGCTTGTATTACATATAGTAAAAACAACAAACAACAACAAAAACCACCAGAAAGG
CTTCCAAACAAAGCTACTCCTCAATTTTCAAACTATACAAAGATTTTGAGCTTGCGGTTCTGCCTGGAAGGTCT
ATTTAGGAGACTCTCCAATGGGACCATTTCACCATTACTTAAAAAAAAAAAAAAAAAGTGCCAGAAAGGTA
ATTAAATTCCCATAGGGCCATATGAACCATATACAATTGTTTGCCTCCAGAGTCTTACAGCTGACTTTACTCC
ACGTCATTAACATATCTCAAATACAGATGCACAAAGCTTATTTTCTACTATACACCAAAX

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FIGURE 1791

TTTTTCTGCTACCGTGACTAAGATGGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGTCCGGCCC
CAGGACAGTTTTACCGCATTCCGTCCACTCCCGATTCCCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCTAGAGCTATTCATTTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCGTTCTTACAACCGGTTTTCAAACCGCCACTGTACCCGAAAAAGGTGTG
AAATAGAGGGACCATTTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGTGGCTTTGAATTGAAATACAG
ATGCATTATCCGAAGTGAAGTTGCCCTACTTTTAACTTTGAACCTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAATG

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FIGURE 1792

MEAF LGS R SGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGPLSTETNWDIAHMISGFE

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FIGURE 1793

CCCTACTGCGGGTCCCGCTGCTGGCAGCGCTGGAACTGGGTGGACGGCATGGGTTGGTCTCAGGATTGTTCG
CGCCTTGTTGGAGATCGCTGTCAAGGGAAGTGAAAGAGCACGTGGGCACGGACCAATTCGGGAACAAATACTACTA
CATCCCGCAGTACAAGAAGTGGAGAGGACAACTATTCGAGAGAAAAGAATTGTAGAAGCAGCAAATAAAAAAGA
AGTAGACTATGAAGCAGGGGATATTCCAACAGAAATGGGAAGCTTGGATTAGAAGAACAAGAAAGACTCCACCTAC
TATGGAGGAAATACTAAAGAATGAAAAACACAGAGAAGAAATCAAATAAAAAAGCCAAGATTTTTATGAAAAAGA
AAACTCCTTAGTAAAGAGACCAGTGAGGAACCTGCCTCCACCAGTTCAAACCTCAAATTAAAGGCCATGCCTC
TGCTCCATACTTTGGAAAGGAAGAACCCTCAGTGGCTCCCAGCAGCACTGGTAAACCTTTTCAGCCAGGATCCTG
GATGCCACGAGATGGCAAGAGCCACAATCAATGAATGCATTATGGTCAAATCTTTTCATGTATATGGATGTGACT
ATTTTAACAAATAAAAGAAGTGAAAAGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1794

GCATGAACCTTGGGGGTGAGCATGCTGAGGATCCTCTTCCTCCTGGATGTAGGAGGAGCTCAAGTGCTGGCAACAG
GCAAGACCCCTGGGGCTGAAATTGATTTCAAGTACGCCCTCATCGGGACTGCTGTGGGTGTCGCCATATCTGCTG
GCTTCCTGGCCCTGAAGATCTGTCATGATCAGGAGGCACTTATTTGACGACGACTCTTCGGACCTGAAAAGCACGC
CTGGGGGCTCAGTGACACCATCCCGCTAAAGAAGAGAGCCCCAAGGCGAAACCACAATTTCTCCAAAAGAGATG
CACAGGTGATTGAGCTGTAGGTGAGCAGTGACGTGAAGAGGGGTTCTAGCCCCGTGGAAAACAGCCCATGGTTAA
CATCTCAGGATGTTCTGCATTCAAACACCCAAGGCTGGTAATGAACTTTCACATGGACTGAATATTGGAGGCAAA
TAATAGAAGGAATAGAATATACAGTGCTCTGTCTGAAGGAAAATATCATGCCTCTTCTGGAAGAAACGGACTG
CACAGAGGAAGGATTGAGCAATTTAGCCTGCAGTGGAAGAAGGTGGACACCAAAAGCTTCACCCTGTGTTGGAGC
TGTTTCATGCTTCCATGAGGCCATGGTGTCCATGTCCGTGGAACCTACCACAGAAAATGGCTCATGAAAAGGGGAA
TCCGACCCAACACACAGCTTCTACACACTGCCATCTTATCAACAGTTAGGCACTACTTTGTAGAACGATTAGCT
TCACCCTCTTAGCTGCCAGGAGATCCCTTCTTAAAGATGGACTATGTGAAGATTTCGGGAGTCTGAAACATGGGG
ACTCCGGGATGGTCTCTAGCCCTATCGATGATGAACACTGGCCTTCTGGAGGGGAAATGGCAGTCTGGGCTGGCG
TGGTAGGAAGGGCTTTGGTGTTCATGGAATGGGCCTGTGCTCTCAGACCTTCAAAGGATGGAACCAACGAAGGA
CCAAATGAGAAAGCAGATGCTGTGCCCTTGACAGGGCCATGAATGTCAGTTATTATTTTCTCCTTATACAATTA
TTTTGTGGTTATTATTACAATGTACATGGCTGTTGCATAGAAGACATGACTGGTGGAGGCTGAGGAAAGCCATGA
CATTCTACAATTGCCATCAGGCTAAGGCCCCGTGAGCATTCTCTCCCTTGTAATATTAACCCCTGTATTTCTGGG
ATCACATCACGGAATATTCTTTGCCTTTCCACTTTCCAGGAAATCTCTCGGACTGGGCTACCCCTCTGTGTGTG
ATGAAAGATGAGCTATATTTTCAGAACAAAGTGCTGTGTTGCATAATTTGCCTGGACTCCCAGGGCGTCTCTTAC
CCAACCTGATAACGATGCTGTTTATTAGCAGCCTTTGTTAACTGATAACCAAGAGCGGTAATGTGATACTCATAA
GCAATTTTCTGTGTGTAGGATAAAATAAACCATCTTGTATGGGAAAA

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FIGURE 1795

MNLGVSMRLRILFLLDVGGAQVLATGKTPGAEIDFKYALIGTAVGV AISAGFLALKICMIRRHLFDDSSDLKSTP
GGLSDTIPLKKRAPRRNHNF SKRDAQVIEL

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FIGURE 1796

GTCAGTCTTAGACGACTGCGTCGTGCTATGACCGGACTTTTTCTTGAAAGGGGATGACAGCAATGGGAGGCAATGG
CTCCACATGTAAACCCGACACTGAAAGACAAGGCACTCTCTCCACAGCAGCCCCAACAACTAGCCCTGCACCCTG
TCTCTCTAACCACCACAACAAAAACATTTAATCCTTGCCTTTTGTGCTGGGGTTCTACTGACACTGCTGCTGAT
AGCCTTTATCTTCCTCATCATAAAGAGCTACAGAAAATATCGAAGGGAGAGGCTTCCCATTTCGCCAGGCCCCATT
GCTGAGATGGGTCCCTCTTCTTTCTGGCACCATGGCAGATCACTCCAAGCCCCAGGCCCCAGATCCTCACTCAGA
TCCTCCAGCCAAGCTTTTCATCCATCCCAGGGGAATCACTTACCTATGCCAGCACAACCTTTCAAACCTCTCAGAAGA
AAAGAGCAATCACTTGGCTGAGAACCATTCTGCAGACTTTGACCCCATGTGCTATGCTCAAATTAAAGTAACAAA
CTAACTCAGCTTTTCCAATGAGGCTTGAATCCATTTCTCTCATCTCAGCCCTATCTTCACACATCACTTTCACT
TTTTTACAAATTTTGGACCACCACCTGTGTGAACTGCAGTCGGAGTTGTTTAGATGTGATCTGGCAATGCTATC
CAGCATCTTTGGAGACCAATGGTCAGTCTTTTCTGCCAGAGGAAAGATTGATGGCCCTCCCACTTGAAGTGC
AGCCTGTGAGCCCTTGGGGGCATAGACTGCCTTCTTGGACCCTTCCAAAGTGTGTGGTACGGAGCTCAGTGCA
CAGAGTATTCACCCAGCATCATGAATCAACTTGGGAGGAGTCAACCAAATGAACAATCTACCAAAAATTTCAAAT
AAAGTCAAACCCCCAC

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FIGURE 1797

MGGNGSTCKPDTERQGTLSTAAPTTSPAPCLSNHHNKKHLILAFCAVLLTLLLIAFIFLIKSYRKYRRERLPI
SPGP LLRWVPLLSGTMADHSKPQAPDPHSDPPAKLSSIPGESLTYASTTFKLSEEKSNHLAENHSADFDP IVYAQ
IKVTN

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FIGURE 1798

GGAGGGTTTTGCTCTTTGTGTGGGTGTGTGAGTGGCTATGATCCTAGTTGTCCAGCTGCTGCGTGGAGAATAAGT
AAAGCAGGTCTGAATGACACCAGGTGCTGCTGCTTTCGGCTGACATTGAGGTAGAGACGTTTCATCTTCACTGA
CGGGGAAGATGAGGCCCTGGCCAGGCACACGGGCAACGTGGTCATCACAAGTCTGCTCGGCCGCCACAGCCGCCA
GGCGCTGTCTGCAAGATGGCCGTGGAGTATGACCGCTTCATCGAGTCCGGCAGGAAGTGGTTCTGCCACGTGGA
CGATGACAACTACGTCAACCTGCGGGCCCTGCTGCGGCTGCTGGCCAGCTACCCGCACACGCGGGACGTCTACGT
CGGCAAGCCCAGCCTGGACAGGCCATCCAGGCCATGGAGCGGGTCAGCGAGAACAAGGTGCGTCTGTCCACTT
CTGGTTTGGCACGGGCGGCGTGGCTTCTGCATCAGCCGTGGGCTGGCTCTGAAGATGAGCCCGTGGGCCAGCGG
GGGTCACTTCATGAATACGGCTGAGCGGATCCGGCTGCCTGATGACTGCACCATCGGCTACATCGTGGAGGCCCT
GCTGGGTGTGCCCTCATCCGCAGCGGCCTCTTCCACTCCCACCTGGAGAACCCTGCAGCAGGTGCCACCTCGGA
GCTCCACGAGCAGGTGACGCTGAGCTACGGTATGTTTGAAGAACAGCGGAACGCCGTCCACGTGAAGGGGCCCTT
CTCGGTGGAGGCCACCCATCCAGGTTCCGCTCCATCCACTGCCACCTGTACCCGGACACACCCTGGTGTCCCCG
CACTGCCATCTTCTAGTGGCCATGGCTGAGACCCAATCCCTGGGCGCCCTGGTATCCAAAGGGGCCAGGGACCC
TGTGCGCTGCCCTGGCCTCGGCATTCGAGGCTCCCCTAGGGCCGTGCTGTGCGTGTGCGTGTGCATGTGCGTG
TGTGTGTGTGTACTGCATGCCACCCGGGTAGCAGGCTGCTGGGCAGTTCTGCTCTGTGGAGGGGCGGGCACC
AGCGCCACTTATGTGCCTCTGCTCCGAGGGCCAGTGGGCTGCAGGGCCTGCTTGGAGGAAGGATTTGTGTGTCGG
AGGCCACTCCGAGGGCAATTCTGTTAGGATTTTTGGATCTTTCTACAGCTACGGGGCTCCGGGCTACTTTGCAGG
GATGCGATGCGTAGGTGCCTTTCTCTTCTGCTGACCACAAGCTCTGTGCTGGGGGTACCTGTGCCCTGAAGTCC
TGGCCCTGTGTATAGCCCCAAGTACGACTCACTGAGCCATGCTCATTGCAGGGGAGGCTGGGTCTGGGGGTGC
GTGACCCAATCCCTTCTCTGCTGGCTGGACGCTGTGGCTTAAGAGTAACAGCAGCCACCGCCAGTTCCAGTGG
CCCCACGAAGCCCCAGTGGCTGGCTGTCCAGCTGGGCAACAGTGGCACCCCTCCAGCTCTTCTGAGTGGGGA
GTCTTCCAGGCCTCCTCAGAGGTCTTCCCTTTGCCTCCCCAGGACAGGGTGAGTCAGAGCTCAGCATTTAATCTC
CTCTCCAAAGTAGAGAGCAAGTCGCCACAGTGGGCGTGTCTGTAATATTGTGACAGTATTTTTTTACTGTGCT
GTTTTTTTTGAAAGGGGATGGGTAAAAAGTAGGGTGTCTTGTTTTTTGGCTGGGAGGGTGGGGTGGGGGAGGG
TCTTATTTTATCTTATCTTTTCTGTGGATCAGAAAAACAGAAGCCAACTCGGGGTCTCTTTGTTTTTAAAGC
TGAAGTGGGACTGTCTGGCACTCTGTGATTTATGCGTTCAGCATCTGGAACCTCCCATCCCTGCCCTCCTCCT
GTGTAGCTGCCACCTCCCCGCTGGGCCAGCATGGCTCACCTGTCCCGTGGGCTGTGTTTCTGTGTGTTTTCTC
TTTGCAAAGACATAGCTAGGAAAGCGAATGATAAGGGAAAAGTTCTCAGGGAATTGAAGTGTGTGTGCTATGGTG
ACGTCCTTTTGCTGTGAATAAAGGTGCTCTTGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 1799

MTPGRCCLAADIQVETFIFTDGEDEALARHTGNVVIITNCSAAHSRQALSCKMAVEYDRFIESGRKWFCHVDDNY
VNLRALRLRLASYPHTRDVYVGKPSLDRPIQAMERVSENKVRPVHFWFATGGAGFCISRGLALKMSPWASGGHFM
NTAERIRLPDDCTIGYIVEALLGVPLIRSGLFHSHLENLQQVPTSELHEQVTL SYGMFENKRNAVHVKGPF SVEA
DPSRFRSIHCHLYPDTPWCPRTAIF

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FIGURE 1800

CTTCTCATTAGCATTAACTAGTTATGCCAGCTTGGGAGAGCCTTCTTTGGGCTTATCATTATTATAAGCCCAG
AAATAGGTGACTAATCAGAGATAAATGTATGGGTTGTCTGTATCTAGTTTTATGCCCTTTTTTTTGCCTAAGACG
TAGTCAAATTAATATTTTAACTAATACATCTTAGCAGAGTTTAGTTAAGCACAAAGTTAACAGTGGGTAGGATTG
AATCTTGAAAGTAATCATGTCTGTAATGTTTTTCATGCATGCAAAAAGCACAGACAAAACCACTCATGCCCTATT
AATAAACAAAATACAGATCAAAGTTTTCAAAGTAATCACTCTATTTATTCTAAATGTCTGTGGCTTTAGGAAAA
TACCACCAGCTAGTACTTACCTATTTAAAGATGTAGAATTTATTATCCTCTAATATTCTTATCAGTTGTTTCCAC
AACTTTAGTTTACTATTGGACTTTCAAAAATTTAAAGAATTACAAGTAAAATTCATTAAACACTTGTGTGTGAAT
AGTAATACACAGTAATTAGTACAGCATGTTGCTTCTTCAACAAATTGAGTTTTTCAGGGAAATCAGCAAGTAAATG
AAATATAAATTTTTGGTAAAGTATCAAACATTCATCTTGCCCATTTTTCTCTTAAACTTTATTATCTAATCAA
ACATAGTTTTCCATAAGATGTAATAAAATATAGATAAGGTTGGAATATTTGAGGATCCATTTGTGGAAGTGAATT
TAATGAGACTTCATTGGTGATACACTCAATTTTTACTGGGTAATTAGCTAATAATGTTGGTCACTGCTCACAGT
TCAAGTAGCTTTAAGATGATGTGGCAAGGAAAACACAAAGCTTTTGGGTAACCAGCGTTCTTAAATGTATGGTTT
TTGACCAGGTGAACCCTTTAGAAGTGATTCTGTTTTAAAGTATGTACTTAAAATACCTTTGGCTGTGATGAAT
GTAGATCCCAGCAGAATACCAAAATCCTATTTTTTTTGGACTGAGTATTGTAGATGCTTAATGACTGAAATGAAT
TTGGAGGCACTGATGAAAGTGATTTTTTTAAAGTTCTCAGGTACTGTTCAATTATTTAATGTTAAGTTTAGTATC
AAGATACAGTTGTTTTTAAATGCCAAAATGCTGTTTATTATACAGAATATTTTATTACATTGCAATATCTTTG
TATATAGTGATTTTTTTCTTGATAATAAATGGAAAAATTCTAAACAAA

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FIGURE 1801A

GTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGGCAAGAGCAGCGACCGCGGCACCTGTCCGCCCGGAG
CTGGGACGCGGGCGCCCGGGCGGCCGACGAAGCGAGGAGGGACCGCCGAGGTGCGCGTCTGTGCGGCTCAGCCT
GGCGGGGGACGCGGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATATTGCTTGG
AAAAACGTGTGGGTACGACCTTGGCTGCCCCAAGTGTAACTCCAGCACTGTGAGGTTTCAGGGATTGGCAGAGG
GGACCAAGGGGACCATGAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGA
AGTGTACATACATTGTGAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTTCAGGCGGAGGCAT
CCTTACCAAGGAATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACA
TACCAAAGGGCACACGTTTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACA
GGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCTTCACCACCTTATTGACGGCTTTAATGAAGAGAAAAGCA
ACTGGATGCGCTATGTGAATCCAGCACACTCTCCCGGGAGCAAAACCTGGCTGCGTGTGAGAACGGGATGAACA
TCTACTTCTACACCATTAAGCCCATCCCTGCCAACCGAGAACTTCTTGTGTGATTGTGCGGGACTTTGCAGAAA
GGCTTCTACTACCCTTATCCCGGAGAGCTGACAATGATGAATCTCACACAAAACAGAGCAGTCTAAAGCAACCGA
GCACTGAGAAAAATGAACTCTGCCCCAAAGAATGTCCCAAAGAGAGAGTACAGCGTGAAGAAATCCTAAATTTGG
ACTCCACCCCTCCAAGGAAAGGACCTCTACCGTTCTAACATTTTACCCCTCACATCAGAAAAGGACCTCGATGAC
TTTAGAAGACGTGGGAGCCCCGAAATGCCCTTCTACCCTCGGGTCTGTTTACCCCATCCGGGCCCCCTCTGCCAGAA
GACTTTTTGAAGCTTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCCATTCATCTCTCC
ACCCTCCAAGCCCCCTCTGCAAGAAGCAGCCCCGACCAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGG
AATACGGTGTCCCTGTGGCCCCCGCTCTCAAGAGCACCAGGACTCCTACGCTTACTTGAACGCGTCTACGGC
ACGGAAGGTTTGGGCTCCTACCGTGGCTACGCACCCCTGCCACCTCCCGCCAGCTTTTATCCCTCGTACAAAC
GCTCACTACCCCAAGTTCTCTTGGCCCCCTACGGCATGAATTGTAATGGCTGAGCGCTGTGAGCAGCATGAAT
GGCATCAACAACCTTTGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGAGCCTGCCC
CACCCCATGCTCAACCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGGAGGTTGCTCCAGCCGGAG
CATCCAGGGAGGTGCTTGTCCCGGCGCCCCACAGTGCTTCTCCTTTACCGGGGCGCGCCGAGCATGAAGGAC
AAGGCCTGTAGCCCCACAAGCGGGTCTCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCAAA
GCTACCTCAGCAGCGATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACC
GGCTACAAGACCCCTTCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGGCCCAAG
ACTTTTCGGCCAGCTCTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTGAGACT
TGCAACAAGGGCTTTACTCAGCTCGCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAGCCACATGAA
TGCCAGGTCTGCCACAAGAGATTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAA
CCATACCAATGCAAGGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAAACTGCACAAGCGTCTGCACACC
CGGGAGCGGCCCCACAAGTGCTCCAGTGCCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTACCTGAAA
GGGAACTGCGCTGCGGCCCCGGCGCTGGGCTGCCCTTGGAGATCTGACCCGAATCAATGAAGAAATCGAGAAG
TTTGACATCAGTGACAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAG
GAAATTCTGGCCGTGGTCAGAAAAGAGAAAGAAGAACTGGCCTGAAAGTGTCTTTGCAAAGAAACATGGGGAAT
GGACTCCTCTCCTCAGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCCGCAACCCA
CTACCTCTGGTACCTGTAAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACACTT
ATTTTGTCTTCTTAAGTTATGACTTGGTGAGTCAGGGTGCCTGTAGGAAGTGGCTGTACATAATCCAGCTCTGC
AAAGCTCTCTCGACAGCAAAATGGTTTCCCTCACCTCTGGAATTAAGAAGGAACTCCAAAGTTACTGAAATCTC
AGGGCATGAACAAGGCAAAGGCCATATATATATATATATATATATATATATATATCTGTATACATATTATATACT
TATTTACACCTGTGTCTATATATTTGCCCTGTGTATTTTGAATATTTGTGTGGACATGTTTGCATAGCCTTCCC
ATTACTAAGACTATTACCTAGTCATAATTATTTTTCAATGATAATCCTTCATAATTTATTATACAATTTATCAT
TCAGAAAGCAATAATTAAGAAAGTTTACAATGACTGAAAGATTCTTGTAATTTGAGTATAAATGTATTTTTGT
CTTGTGGCCATTCTTGTAGATAATTTCTGCACATCTGTATAAGTACCTAAGATTTAGTTAAACAAATATATGAC
TTCAGTCAACCTCTCTCTCTAATAATGGTTTGAAGATGAGGTTTGGGTAATTGCCAATGTTGGACAGTTGATGTG
TTCATTCTGGGATCTATCATTTGAACAGCATTGTACATAACTTGGGGGTATGTGTGACAGGATTACCCAAGAAT
AACTTAAGTAGAAGAAACAAGAAAGGGAATCTTGTATATTTTGTGTAGTTCATGTTTTTCCCCAGCCACAA
TTTTACCGGAAGGGTGACAGGAAGGCTTACCAACCTGTCTCTCCCTCCAAAGAGCAGAATCTCCACCGCCCC
TGCCCTCCCCACCGAGTCCTGTGGCCATTGAGAGCGGCCACATGACTTTTGCATCCATTGTATTATCAGAAAATG

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FIGURE 1801B

TGAAGAAGAAAAAATGCCATGTTTTAAACCCTGCGAAAATTTCCCCAAAGCATAGGTGGCTTTGTGTGTGTG
CGATTTGGGGGCTTGAGTCTGGGTGGTGTGTTTTGTTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAT
GTCAAATTCACAAACATGGTGTCTACCAGGAAGGATTCGAGGTAGATAGGCTCAGGCCACACTTTAAAAACA
AACACACAAACAACAAAAACGGGTATTCTAGTCATCTTGGGGTAAAAGCGGGTAATGAACATTCTATCCCCAA
CACATCAATTGTATTTTTCTGTAAACTCAGATTTCTCAGTATTTGTGTTTTTACATTTTATGGTTAATTTA
ATGGAAGATGAAAGGGCATTGCAAAGTTGTTCAACAACAGTTACCTCATTGAGTGTGTCCAGTAGTGCAGGAAAT
GATGTCTTATCTAATGATTTGCTTCTCTAGAGGAGAAACCGAGTAAATGTGCTCCAGCAAGATAGACTTTGTGTT
ATTCTATCTTTTATTCTGCTAAGCCCAAAGATTACATGTTGGTGTTCAAAGTGTAGCAAAAAATGATGTATATT
ATAAATCTATTTATACCACTATATCATATGTATATATATTTATAACCACTTAAATTGTGAGCCAAGCCATGTAAA
AGATCTACTTTTTCTAAGGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCCTTTCTGAGACTTTGCTTAAT
ACTTGGTGACCTCACAATCACGTCGGTATGATTGGGCACCCTTGCTACTGTAAGAGACCCTAAAACCTTGGTGC
AGTGGTGGGGACCACAAAACAACCAGGGAGGAAGAGATACATCATTTTTTAGTATTAAGGACCATCTAAGACAGC
TCTATTTTTTTTTTGCCACTTTATGATTATGTGGTCACACCCAAGTCACAGAAATAAAAACTGACTTTACCGCT
GCAATTTTCTGTTTTCTCCTTACTAAATACTGATACATTACTCCAATCTATTTTATAATTATATTGACATTT
TGTTACATCAACTAATGTTACCTGTAGAAGAGAACAATTTTGAATAATCCAGGGAAACCCAAGAGCCTTACT
GGTCTTCTGTAACCTCCAAGACTGACAGCTTTTATGTATCAGTGTTTGATAAACACAGTCCTTAACTGAAGGTA
AACCAGCATCACGTTGACATTAGACCAATACTTTTGATTCCCAACTACTCGTTTGTCTTTTTCTCCTTTTG
TGCTTTCCCATAGTGAGAATTTTTATAAGACTTCTTGCTTCTCTCACCATCCATCCTTCTCTTTTCTGCCTCTT
ACATGTGAATGTTGAGCCACAATCAACAGTGGTTTTATTTTTTCTCTACTCAAAGTTAAAACCTGACCAAAGTT
ACTGGCTTTTACTTTTGCTAGAACAACAACTATCTTATGTTTACATACTGGTTTACAATGTTATTTATGTGCAA
ATTGTCAAAATGTAAATTAAATATAAATGTTTCATGCTTTACC

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FIGURE 1802

AAVTILGPPVLRGKSSDRGTCPPGAGTRAPGRPDEARRDRRGARLCGSAWRGTRGECGLGRDERDFSQMLDICLE
KRVGTTLAAPKCNSSSTVRFQGLAEGTKGTMKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGADGGTSVQAEAS
LPRNLLFKYATNSEEVI GVMSEKEYIPKGTRFGPLIGEITYTNDTPKNNRKYFWRIYSRGELHHFIDGFNEEKS
WMRYVNPAPHSPREQNLAAQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLQTQSSSLKQPS
TEKNELCPKNVPKREYSVKEILKNWTPPLQGKDLYRSNISPLTSEKDLDFFRRRGSPMPFYPRVVYPIRAPLPE
DFLKASLAYGIERPTYITRSPIPSSTTPSPSARSSPDQSLKSSSPHSSPGNTVSPVGPQSQEHRDSYAYLNASYG
TEGLGSYPGYAPLPHLPPAFIPSYNAHYPKFLLPPYGMNCNGLSAVSSMNGINNFGLPRLCPVYSNLLGGGSLP
HPMLNPTSLPSSLPSDGARRLLQPEHPREVLVPAPHSAFSFTGAAASMKDKACSPTSGSPTAGTAATAEHVVQPK
ATSAAMAAPSSDEAMNLIKNNRMTGYKTLPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFCQQT
CNKGFTQLAHLQKHVLTGKPHKQVCHKRFSSNLKTHLRHSGEKPYQCKVCPAKFTQFVHLKLHKLHRLHT
RERPHKCSQCHKNIHLCSLKVHLKGNCAAPAPGLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEK
EILAVVRKEKEETGLKVSQQRNMGNGLLSSGCSLYESSDLPLMKLPPSNPLPLVPVKVKQETVEPMDP

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FIGURE 1803

GCCTAGGAACATTTTTTAAGGACTCAGCTGTGGCTTTTAGGGCTTGGTTTCATACCATGGGGGAAAAAAGTCCT
AGGAGAAAGCGACGTGGCTCATTAGTGTTCCTCTTCAGTGTCTCAAGCCGCTGGTGGATTCCATGACACAGGG
GGCCTGGAAAGAAAGGGAAAGTGGATTAAATATATATATACGTAACCCAGCCCCATAACCCCTAACTGGACA
AATGAGGTCTGTTCTTTGGGCTGAGGCTGTGCATATAAAGTCTTATTTGGGACTTTACAACTTGTCTAAC
TATCTTGTGGATAGTGGGCTGTGACAATCTGGAATAGAGAACGTTACACTTCGCTCCTTTAAAGAAGCGACCCC
AGATCTGCAAGGGAGTAGATTCTGTATCTTGGCCTCACAGCCCTTCTGTTGATTACAAAGCCCGTGAAGAAA
ACAGAACACACCCCTCCTCAGTTCGGTCTAAATGTGTTCTTCTGCTTCAATTACACCAGTTCCTGGGGCAAAGACA
CTGATGAAACAACACCCATACCTGAAAAGAATAAATGTGTGACTTTCAATCCCCTTTTCGCAGTGAAAGAAACAG
CAAACTTAAGATTACGATCTGTTCTCCAGTTGCATGAGGAATGCACTGTCTCGCAGCACCAGCTCTGCAGA
GCCCTTGGCCAGACTCTTTGCGGTTTTATTTATATGTATTTCCATATTTTATTCTGTGTGTCACTGCTGCATT
GGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTACTATGGACACCAGGTGCAAGCCACACAAAACAAAG
CCAGTTCATGAGCTGCCTATGATATGCAATTGCGGAAGTAACATTTTACCAGGGGTGTGCCATTGCAGTGATATA
AATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGTGAGTGTGTSTG
TATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCRTAGCCTCATGCTTAGGACTACCCATGAATGTTGTGGA
ATGTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTGGACCTGGAGAC
CATCCCCTTGGAAAGACAACCCAGAGATGTTACAGCATCCTGTATCTACACGCATCCTGTATCTACACGTGTATTT
TGAGCTGTACACTAACCTTAATAAGAATTTACAGCTTTGGACAGAGGCATTTTACCTTAATGGYGAAGTAA
TTAAAAATATAAATCCATTACAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAATCATCTGAATCA
TCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAAATGGAGTACAAGTAGCCTTTGT
TTTCTGTCAATAAATGGACTTGTGTAATGCGAACGAATATATGCAATTCATATACTTTTGGAGATGAACGTAGATA
TGTGTGTGAGCTTTGAGATGGTGTGYCCYGGATTAATACTTTGTCTCCCCAATATCACAGAAAAATACATGCCCA
GTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACCTGGAAAGTT
CTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAGAGCATCAGCCTTCTAGAATCGGAGCTCCGGAG
TGTGAAGATTAGTATTGATATGATATGTATACAAACTCCAGCCAACTTACTGCCATTTTTCATAATCTGAGTG
GCTGCCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAAATCAGGGAA
AAATGAGGAAAAAAATAGATTCTGAACCATTATTGTTGAATAAGTAGAGAAATCATCAATAAATATTTATTA
CATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTTGGGGACCTTA
ATATATTTTTTAAGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTGACTCTTCTG
AGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTRAGCCCGTGGGSAAGCCCT
GGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAAACTACCCCGCTGCACCAAATCA
AGTAGCTTACCTTGTGTATGCAGGCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCTGGTGGGTTG
AAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCRITCTGAGACCTCTGTATTC
CAATCTGTGAAGGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACTTAATTC
TGACCCATAAGGAAAGTTCCTAGAXGCCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGCATTGAT
ACACACTGAAGAGTGCCTTTATTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTCAAATTA
GAATGTATAAGGCATATTATAATTTAGTTCATACTGAAAAAGAAATTAACAGAACATTGTTGCGTTTACACGTTT
CAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTTCTATTTTGTTTTAAATTTGTCAAGGTATTTTTCTTCCC
TTCATGAACCTTAGGTACACATAACTTATGTCATTTATTTATGGTCTTTTATACCTAGTTGTAAAATTGTAAAA
TAGCAAATAAATGCAAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAACCCTGCAAAAAA
AAAAAAACTCGAG

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FIGURE 1804

AAGCTTTCCTCTTTGCATTTTGGCATTGAAAACTCCGAAGAGCGGTTTTTGTTTTTATTTAAAGAAGATGATA
CATATGTGTACCCGATTCAAACTAGAGAATAGAATTTAAACATAATTTCAAAGTCTTCAAATATGCCTAAAG
GTAACAATGTTCATCTTTAATTGCCAATTTCTCTACCCTTTCAAAAAATTACTTCCAAGGATTTAATGAGCTCC
TTCCTTTCAACAGAAAAATGGACTATTTTCCTTTCAGATTTACTATATGCTGTCTACTCCAGCTTTATAACCGCATG
TGCATACACAAACATTTCTTTCTCTCTTGCAGGTGGCACAACCAGGAAGGGGAAATCTGTGGTTTTAAATCTTT
ATGCCTCATCTCTGAGTGTGAAGGCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTG
CCTCCAAGTACTCCTACATATTAGCATTACAGTGTATGATGCCTGTTACTAGCATTACATGGAACAAATTGC
TGCCGTGGGAGGATGACAAAGAAGCATGAGTCACCCTGCTGGATAAACTTAGACTTCAGGCTTTATCATTTTTCA
ATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTTAACTAAGTTTTGAAAGTAAGGTTATTTAAAGAT
TTATCAGTAGTATCTAAATGCAAAACATTTTCATTAAATGTCAAGCCCATGTTTGTTTTTATCATTAAACAGAAA
ATATATTCAATGTCATTCTTAATTGCAGGTTTTGGCTTGTTTCATTATAATGTTTATAAACACCTTTGATTCAACTG
TTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAATTAGAAGGACTACTAACCTCCAGT
TATATCATGGATTGICTGGCAACGTTTTTTAAAGATTTAGAACTGGTACTTTCCCCCAGGTAACGATTTTCTG
TTCAGGCAACTTCAGTTTAAATTAATACTTTTATTGACTCTTAAAGGGAACTGAAAGGCTATGAAGCTGAAT
TTTTTTAATGAAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCCATACA
AGATAAAAAGATTTAATCAAAAAATTTTCATATTTGAAATGAAGTCCCAAATCTAGGTTCAAGTTCAATAGCTTAG
CCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTTCCACTTCTAAGCCTGTTTCTTCTCCATATGGGGATA
ATACTTTACAGGTTGTTGTGAGGCTTAGATGAGATAGAGAATTATTCATAAGATAATCAAGTGCTACATTAAT
GTTATAGTTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTTGATTTGCA
GAATATTTAAGGTTTGATTTCTATGCAGTTTTTCTAAATAACCATCACTTACAAATATGTAACCAAACGTAATT
GTTAGTATATTTAATGTAACTTGTTTTAACAACCTCTCTCAACATTTTGTCAGGTTATTCAGTGAACCAAAT
AAATCTCATGAGTCTTTAGTTGATTTAAAAA

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FIGURE 1805

MSSFLSTENGLFSFQIYYMLSLQLYNRMCIHKHFFLSRWHPGRGNLWFKFFMPHPLSAEGLL

[illegible]

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FIGURE 1807

GEMGMEKGYIKTNNGNNDDEDWSTPSXXXXXXXXXXXXXXXXMFIIIVHYSYIVRRSYN

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FIGURE 1808

CTATTTTTTAAAACGGAGGTACTGAAAAAGATCGGGAGATTTTCTATTCTCTATCAATGGGGATTTCCAGGCAC
GTGCCCCACCCAAGGCCCACGCCCAGAGCGCCCGAGTGGCAGGACAACGCCCGCTGACATCTTCCCGTCCCGACG
GCACAGGCTACTCCGAGCTCCGCCTTTTAGATTGCACCGAGAGAAGCCAGCTACAGCTTGGAGTCCAGGCCGGGT
TTTCAAGCATCAAGACGGAAGTAACAGCGGAAAGGAAGTTCCAAGGCCCGCTGGGAAAAAGGTGGGGGGACCA
GGGGAAGACTCGGAGTGCGATGGCGGCGCAAATTTCAATTGTGGCCACCACTTCCACTCCCGGAATAGTCCGGAA
CAGCAAGAAGAGGCCGCGCCAGCCCTTCCCACAATGGCAGCAGCGGCGGGGGCTATGGCGCCAGTAAGAAGAAAA
AGCGTCCGCTTCCAGCTTTGCGCAGGGTATCAGCATGGAAGCCATGAGTGAGAATAAAATGGTGCCCTCTGAGTT
TAGCACAGGACCTGTGGAAAAAGCTGCCAAACCTTTGCCATTTAAGGATCCCAACTTTGTGCACTCTGGCCACGG
TGGCGCAGTAGCTGGCAAGAAGAACAGAACCTGGAAGAACCTGAAACAAATCCTCGCTTCTGAAAGGGCATTGCC
GTGGCAACTGAACGATCCTAACTACTTCAGTATTGATGCTCCTCCATCCTTTAAGCCAGCTAAGAAGTATTCTGA
TGTTTCAGGCTCTGCTTGCCAACTACACAGACCCCCAGAGCAAATGCGGTTTCAGCACCATTGAAGAGTTTCTTA
CATTTCGGAGGCTGCCCTCTGACGTCGTCACCGGCTACCTGGCCCTGAGGAAGGCCACGAGCATCGTTCCCTTGAGC
CCCAGAAAGGGAGATGAAATGGAAAGCTGTTTCAAAAACAGACTCTGGACTCATGATTTTGTTCACGGAAACAA
ACTCGTTCTGCTGTCAATCTGAAATGCCAGTGCTGTGCCTTGGAAAGAATGTTTGGCTTTAATTTAAGGGTTTT
TTTTTTTTTTTAGTGTGTGTTTTCCCTCCAAGTGTGATTTTCTGCTGAATTAAATTATACTTCAGTTGTTGCC
TCAAGTAAAGGTGTTTGACAAGAAGATACAATAAACCATACTTTTCATTTAAAAAA

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FIGURE 1809

MAAQIPIVATTSTPGIVRNSKKRPASPSHNGSSGGYGASKKKKASASSFAQGISMAMSENKMVPSEFSTGPVE
KAAKPLPFKDPNFVHSGHGGAVAGKKNRTWKNLKQILASERALPWQLNDPNYFSIDAPPSFKPAKKYSDVSGLLA
NYTDPQSKLRFSTIEEFSYIRRLPSDVVTGYLALRKATSIVP

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FIGURE 1810

ATGGCTTTAGAGATCCACATGTCAGACCCCATGTGCCTCATCGAGAACTTTAATGAGCAGCTGAAGGTTAATCAG
GAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGGCCTCTATCGCACTGGC
AAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCAGTCTCACACC
AAGGGAATTTGGATATGGTGTGTGCCTCATCCCAACTGGCCAAATCACACATTAGTTCTGCTTGACACCGAGGGC
CTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGCACTGGCACTCTTACTGAGCAGCACC
TTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGCTATCGACCTACTGCACAATGTGACAGAAGTACAGAT
CTGCTCAAGGCAAGAACTCACCCGACCTTGACAGGGTTGAAGATCCTGTGACTCTGCGAGCTTCTTCCCAGAC
TTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCTGGAAATAGATGGGCAACTGTGCACACCAGATGAATACCTG
GAGAATTCCCTAAGGCCAAAGCAAGGTAGTGATCAAAGAGTTCAAATTTCAATTTGCCTCGTCTGTGTATACAG
AAGTTCTTTCCAAAAAAGAAATGCTTTATCTTTGACTTACCTGCTCACCAAAAAAAGCTTGCCCAACTGAAACA
CTGCCTGATGATGAGCTAGAGCCTGAATTTGTGCAACAAGTGACAGAATTCTGTTCCCTACATCTTTAGCCATTCT
ATGACCAAGACTCTTCCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGCTGACCTATGTCAAT
GCCATCAGCAGTGGGGATCTGCCTTGATAGAGAATGCAGTCTGGCCTTGGCTCAGAGAGAGAAGTACAGTGCA
GTGCAAAAGGCCATTGCCCCTATGACCAGCAAATGGGCCAGAAAGTGACGCTGCCCATGGAAACCCCTCCAGGAG
CTGCTGGACCTGCACAGGACCAGTGAGAGGGAGGCCATTGAAGTCTTCATGAAAAACTCTTTCAAGGATGTAGAC
CAAAGTTTCCAGAAAGAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAAACGGAACCTGGAAGCA
TCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTTGGTCTCTAGAAGAAGCAGTGAAGCAGGGAATTTAT
TCTAAGCCAGGAGGCCATAATCTCTTCATTGAGAAAACAGAAGAACTGAAGGCAAAGTACTATCGGGAGCCTCGG
AAAGGAATACAGGCTGAAGAAGTTCTGCAGAAATATTTAAAGTCCAAGGAGTCTGTGAGTCATGCAATATTACAG
ACTGACCAGGCTCTCACAGAGACGGAAAAAAGAAGAAAGAGGCACAAGTGAAAGCAGAAGCTGAAAAGGCTGAA
GCGCAAAGGTTGGCGGCGATTCAAAGGCAGAACGAGCAAATGATGCAGGAGAGGGAGAGACTCCATCAGGAACAA
GTGAGACAAATGGAGATAGCCAAACAAAATTGGCTGGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAA
CAGGCTGCACAGCTCAGCACAAACATTCCAAGCTCAAAATAGAAGCCTTCTCAGTGAGCTCCAGCAGCCCCAGAGG
ACTGTTAATAACGATGATCCATGTGTTTTACTCTAA

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FIGURE 1811

MALEIHMSDPMCLIENFNEQLKVNQEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGF SVASTVQSHT
KGIWIWCVPHPNWPNHTLVLLDTEGLGDVEKADNKNDIQIFALALLLSSTFVYNTVKNIDQGAIDLLHNVTETD
LLKARNSPDLDRVEDPADSASFFPDLVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGSQORVQNFNLPRLCIQ
KFFPKKKCFIFDLP AHQKKLAQLETLPDDELEPEFVQQVTEFCSYIFSHSMTKTLPGGIMVNGSRLKNLVLTIVN
AISSGDLPCIE NAVLALAQRENSAAVQKAI AHYDQMGQKVQLPMETLQELLDLHRTSERAIEVFMKNSFKDVD
QSFQKELETLLDAKQNDICKRNLEASSDYCSALLKDIFGPLEEAVKQGIYSKPGGHNLFIQKTEELKAKYYREPR
KGIQAEVVLQKYLKSKESVSHAILQTDQALTETEKKKKEAQVKA EAEKAEQRLAAIQRQNEQMMQERERLHQEQ
VRQMEIAKQNWLAEEQQMQEQMQEQAAQLSTTFQAQNRSLSELQHAQRTVNNDPCVLL

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FIGURE 1812A

ATTATGGGCTGTGGGTGCCGCTGAGCAAGATGGAGCTGTCTGCAGTGGGCGAGCGGGTCTTCGCGGCCGAATCCA
TCATCAAACGGCGGATCCGAAAGGGACGCATCGAGTACCTGGTGAAATGGAAGGGGTGGGCGATCAAGTACAGCA
CTTGGGAGCCCGAGGAGAACATCCTGGACTCGCGGCTCATTGCAGCCTTCGAACAAAAGGAGAGGGAGCGTGAGC
TGTATGGGCCCCAAGAAGAGGGGACCCAAACCCAAACTTTCTCTGAAGGCGCGGGCCCCAGGCCGAGGCCCTCC
GCATCAGTGATGTGCAATTTCTCTGTCAAGCCGAGCGCCAGTGCCCTCCTCGCCCAAGCTGCACTCCAGCGCAGCCG
TGCACCGGCTCAAGAAGGACATCCGCGCTGCCACCGTATGTCCCGCGTCCCTGCCCGCCCGGACCCGCGAGG
GGGGCAGCCCCGACTGCGCCCGCCCATTTGCGCCTTCTCGGAGACGGTGCATCATCAACCGCAAGGTGAAGC
CGCGGAGCCCAAGCGGAACCGCATCATCTGAACCTGAAGGTGATCGACAAGGGCGCTGGCGCGGGGGCGCCG
GGCAGGGGGCCGGGGCGCTGGCCCGCCCAAGTCCCTCGCGGAACCGCGTTATAGGCAAGAGCAAGAAGTTCA
GCGAGAGCGTCTGCGTACACAGATCCGCCACATGAAGTTGGGCGCCTTTGCGCTGTACAAGCCTCCGCCCGCCC
CCCTGGTAGCCCCGTCCCCCGCAAGGCTGAGGCCTCAGCCCCGGGCCCTGGGCTACTTCTGGCGCCCCCGCCG
CCCCCTACGACGCCCCGAGCTCTGGCTCCTCGGCTGCCCTCGCCTACACCACAGTCTCTGACCCCGACGACA
CGCCCCCAAGCTCCTCCCGAGACCGTGAGCCCATCCGCCCCAGCTGGCGCGAGCCGGAGGTGCTCGACCTGT
CCCTCCCTCCCGAGTGGCGAGCCACCAGCAAGCGGGACCGCTGAGGTACAGCTGCTGCCGGCCCCGGCACCTC
CCACGCCCCCTGAGCCCGCGGTGCCTCCTCCGAGCCCGAGGCTGGGGACTGGCGCCCCGAGATGTACCCCTGCT
CCAATGTGGTCGTACCCGATGTACACAGCAACCTCCTGACGGTCACAATCAAGGAATTCTGCAACCTGAGGATT
TCGAGAAGGTGGCTGCTGGGGTAGCAGGCGCCGCTGGGGGCGGTGGCAGCATTGGGGCGAGCAAGTCAGGGGGCT
CCACCAAGGAGGGGGGCTTGGGGGGGCCCTCCTGCCGAAGTCATACTCTTGCTCCACCCACCCCTGCCCCCA
GCCCTCTCTCCCTGTGCTTTGCTTGTCTCAAATGGCTCGGTGTTGACCCAGGGATGGGGCTGGGTAGTTGGGGTC
CCAGAAAGCCGGGGGTAGGGGCCACCCTGGAATGGGGCAGGGGAAGGGCACACCCCTGCCCATGCATGGTAGCC
CACTGGGTGGTTTTCTGGAAGCCCTAGAACTAGGGTTCCTCTGCCCTTCCACATCCACCTGTCTCTCTAGCT
TGCTTCTGTCTCTCTGTGCGCGTCTGATTTCTCGGTGCTAACCTGGCAGCTGTGGGGCCCTTAGGAGCCCCC
ACCGAGGGTGGACACAGTCCCTTTCTCTCGAGATGCCTAGGCAGGAGGAGGGCTTCTGCCTGTTTGGCAAA
GTCCCAGGCAGAGGCCAAGGATGAGGCCTGACTCGGCTCCTCCCTCCACATCAGCCAGGGCATCAGAAGTTGGGC
CAGGGCGGGTCTTCCCTGCTCGATTTTGGACGAGGCCTAAGTAGACCCCTATGCCCTGCCCGAGCCCTGGCTC
TTTCTAACCCCTCAACGGTGGGAGGAACGGCAGAGGGTGGCCTGGCCACAGCCTCCCGCATCTAAAGGCC
CCTTCAGTTCTTGACCAAAGGTGCTACGAGAACCTGCCGTGGAACTTCCAGTTGTGCGTCTGCCCACTCGCTG
TGTTTGTCCGTGGGTTCATACATGCATTGGGTGCTAGGCCCCAGGCTGCCGGGTGGCACCCCTTTACAGTTCCCTT
GAACAGGGGCATTGAAGGCCTGGACTGCCTCTCGCTCAGTAGGCCTGGGGACCAGGCTTGGGTCTGGAGGTTG
CTGTGGAAGTACCAGGCCTCCCTCCTGGCCAGGTGTGCTGGGGGCACCGTGGCCCCACCCCTGCCCTCC
TCAGGGTGGTCAGCCCAACCTGTGCGACCTTCACTTCACATCATGTTGGGGACCGAGATAGAGAGGGAGACCCCA
TTCCAAGTCCCTCTTCTCCGGGTGTTTGGGGAGGATGCTGAAGAAATCCATTCCCGAGGGCCTCCCGCTTGTC
CCAGCCCCCTTTTGTCTTGTGACCACGGAGGCTTCTCACAGCCAGCCTGCCTGAAGCAAAGGAGGCTCCCGTG
TCCTGGGCAGCTTCTGTTTCCCTCTGCTGCTGGGAGCTGAGGCACCCGTGCCAGTGGCAGAGGGCCACAGCCCCA
GCCTTAGGCCAGGCCCTGGGAGGGCAGGCAGGCAAGGGGAGACCAGAGGGTCTGTGTTCTCCAGGAGAATGAGG
GTGTTGGTCCCAGAATTGGGACCGGGCCCCGCTGGCCAGCCCTGGGCCACTTCCCGGTCTCCATTGTGCGTGG
GTGGCGTGTTCAGGCGTGGCTGGAGCTGGCTTCTGGCTGTGCTGCCATGGGCCCCCTCCCTCAGAAGCACGTTG
GCAGGAGGCCGATCAGAACCCTAGCGCCTTTGGTCTAAGAATGGGAGGCTGCCTTCCCTCCCAATCTCCCTGCC
AGGGCCCCACAGCGTGGCCCTAGCCCTCCCTCCCGGGATGTAGAACGGGGACCCCTCGCAGGGTGGGGCGGGGG
CTGATACTCCTCGCCCCCTCCCTACCTGCCCTGTGTGTTGGCTTTGTGGCCGTCCAAGTGCCAATTGGCTTTT
GCCCAAATAAGGGCTGGTATTTCTCTCTGTCTTGGAGGTGATTTCCCTGAGAGTTTCGTGTCTTCGTGA
CCACCTGGGTGCCAGTTACAGGTGTTTCCAGAGACCATAGAAATGTGTTTCTGAGAGTTTCGTGTCTTCGTGA
CTTTTTTGTAAAGAAGTTGTGTTTTAGAGGTGATTTATGACAGGAAAGTGAAAGAATTAGTTTTGCAAAAAA
CAAAAACAAAAAAGAGGAAAAAAGAAATAGAAAAAATATTGTGGGATTCTATGGGGGGGTGGCGGGGG
AGAAAGAGCTATTTAAGAAAAAATAGTAACGCAGTGATTGCACAGGTGAGGTGGCAATGTCAGGATGGGGCGGAG
GCCTGGGCCCAGCTGGCAGGTCCCTGGCATCGCAGGCACTGTGGAGAGGGCCTGGACCCAGATCTCCACACCCG
TGCTTGCTCAAAGGAAGGACAACAGCGGGCCCCGGGAGCTAACCAAGCTGCAGGTCCCGCAAGCTGAGGTT
TGGGAGGGTGGGGGTGTCACTGGTGATTTTCTCAGGGGGCTGGTGAGTGGGCAGTTTGGTTTCTTGCCCCCTT